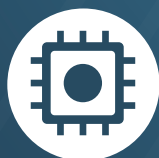




捷波資訊股份有限公司
JETWAY INFORMATION CO., LTD.

2020/2021

Industrial Product
Selection Guide



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捷波資訊股份有限公司
JETWAY INFORMATION CO., LTD.

Introduction



Genuine and Trusty, Professional Jetway

Jetway Information Co., Ltd. was established in Taipei, Taiwan 1986, is a world-leading innovator and manufacturer, by providing wide-range PC peripheral solutions and services to meet customers' needs.

Jetway entered the Industrial PC market in 2005 by developing Single-Board Computers and non-PC platforms with our expertise, Jetway has built a well-known reputation at IPC markets. Jetway IPC solution products has been successfully phased-in to several applications: points of sales (POS), Kiosk and Digital signage, Surveillance system, Industrial Automation, Health Care Terminals, Gaming and Amusement Industrial, Residential control, Transportation, Military, In-Car System, Tele- Communication, Banking/ATM, Storage...etc.



Dedicated in Perfection, and Creative Jetway!

More than 100 highly qualified engineers support with our experienced sales teams, global business units and partners to create solutions that meet our customer's application demand, Jetway's product longevity, professional engineering, fast support, and value-added services, helps create a sustainable and viable embedded solution for OEMs and system integrators.

Jetway offers comprehensive system integration, hardware, software, customer-centric design services, and global logistics support. Jetway's mission is to offer you an accelerated time-to-market, reduced total-cost-of-ownership and an improved overall application with leading-edge, highly-reliable embedded technology.



"Stay modest, keep moving on."

We emphasize value, quality and service. Starting from the design stage, we focus on the value that can be integrated into products. You will always find Jetway products delivering high performance, rich features, and good cost structure. Quality cannot be more over-emphasized more in Jetway. It begins from the design phase. All the processes care consistence and Service is the number one priority in Jetway. It is a package of various supports that we offer to our partners. It includes in-time market information, product update, prompt delivery, flexible production, quick time-to-market cycle, fast RMA and warranty, local warehouse, convenient on-site service, and around the clock technical support.

Form Factor	Mini ITX			
Category	Apollo Lake	Apollo Lake	Apollo Lake	Apollo Lake
Model	JNC8J-I3455 Series	JNF894-3455	JNF894G32-3455	JNF695HV-3455
Dimension	170 x 170 mm	170 x 170 mm	170 x 170 mm	170 x 170 mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Apollo Lake J3455	Intel Apollo Lake J3455	Intel Apollo Lake J3455	Intel Apollo Lake J3455
Memory	1* DDR3L 1866MHz SODIMM up to 8GB	2* DDR3L 1866MHz SODIMM up to 8GB	2* DDR3L 1866MHz SODIMM up to 8GB	1* DDR3L 1866MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	1 SATAIII	1 SATAIII	1 SATAIII
eMMC	32GB (By model)	No	32GB	No
mSATA	No	No	No	No
Mini PCIe	N/A	1 Full size	1 Full size	1 Full Size
M.2	1 (M Key 2242) 1 (E Key 2230)	1 (M-Key 2242/2280)	1 (M-Key 2242/2280)	1 (M-key 2242/2260)
SIM Card Holder	No	No	No	1 INT
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD
Ethernet	1* Realtek RTL8111G GbE	2* Intel i211AT GbE	2* Intel i211AT GbE	2* Realtek RTL8111H GbE
USB	2 EXT USB 3.0 1 EXT USB 2.0 4 INT USB 2.0	4 EXT USB 3.0 3 INT USB 2.0	4 EXT USB 3.0 3 INT USB 2.0	4 EXT USB 3.0 6 INT USB 2.0
COM	2 EXT COM 2 INT COM	1 INT RS232/422/485 5 INT RS232	1 INT RS232/422/485 5 INT RS232	1 INT RS232/422/485 9 INT RS232 (COM1~3 With Powered 5V/12V)
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 INT (selectable with eDP3)	2 EXT	2 EXT	1 EXT
VGA	No	No	No	1 EXT
DVI	No	No	No	No
DisplayPort	No	1 EXT(select w/HDMI)	1 EXT(select w/HDMI)	No
LVDS / eDP	1* eDP 1* 24 Bit Dual CH LVDS (selectable with eDP2)	1* 24 Bit Dual CH LVDS (selectable with eDP)	1* 24 Bit Dual CH LVDS (selectable with eDP)	1* 24 Bit Dual CH LVDS (selectable with eDP)
Multiple Display	Triple	Triple	Triple	Triple
PS/2	1 INT	1 INT	1 INT	1 INT
Expansion Slot	1* PCIe x1	1* PCIe x1	1* PCIe x1	No
TPM	No	TPM2.0 onboard option	TPM2.0 onboard option	TPM2.0 onboard option
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	12V DC-in jack	9~36V DC-in jack	9~36V DC-in jack	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
Page	25	26	26	27

Form Factor	Mini ITX			
Category	Apollo Lake	Apollo Lake	Apollo Lake	Apollo Lake
Model	JNF695L-3455	JNF694-3455	JNF694L-3455	JNF692G6-345
Dimension	170 x 170 mm	170 x 170 mm	170 x 170 mm	170 x 170 mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Apollo Lake J3455	Intel Apollo Lake J3455	Intel Apollo Lake J3455	Intel Apollo Lake J3455
Memory	1* DDR3L 1866MHz SODIMM up to 8GB	2* DDR3L 1866MHz SODIMM up to 8GB	1* DDR3L 1866MHz SODIMM up to 8GB	1* DDR3L 1866MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	1 SATAIII	1 SATAIII	1 SATAIII
eMMC	No	No	No	No
mSATA	No	No	No	1 Full Size
Mini PCIe	1 Full Size	1 Full Size	1 Full Size	1 Full Size
M.2	1 (M-key 2242/2260)	1 (M-key 2242/2260)	1 (M-key 2242/2260)	No
SIM Card Holder	No	1 INT	No	1 INT
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD	No
Ethernet	1* Realtek RTL8111H GbE	2* Realtek RTL8111H GbE	1* Realtek RTL8111H GbE	6* Intel i211AT GbE
USB	4 EXT USB 3.0 2 INT USB 2.0	4 EXT USB 3.0 3 INT USB 2.0	4 EXT USB 3.0 3 INT USB 2.0	2 EXT USB 3.0 2 INT USB 2.0
COM	2 INT RS232 (COM1~2 With Powered 5V/12V)	3 EXT RS232 1 EXT RS232/422/485 2 INT RS232	4 EXT RS232	1 EXT RS232 (RJ45 type) 1 INT RS232/422/485 2 INT RS232
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	2 EXT	1 EXT	1 EXT	1 INT
VGA	No	No	No	No
DVI	No	No	No	No
DisplayPort	No	1 EXT	1 EXT	No
LVDS / eDP	1* 24 Bit Dual CH LVDS (selectable with eDP)	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS	No
Multiple Display	Triple	Triple	Triple	No
PS/2	1 INT	1 INT	1 INT	1 INT
Expansion Slot	No	1* PCIe x1	1* PCIe x1	1* PCIe x1 (Horizontal)
TPM	TPM2.0 onboard option	TPM2.0 onboard option	TPM2.0 onboard option	No
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	12V DC-in jack	24pin ATX	24pin ATX	12V 2-pin header
AT Mode	Yes	Yes	Yes	Yes
Page	28	29	30	31

Form Factor	Mini ITX			
Category	Apollo Lake	Braswell	Braswell	Braswell
Model	JNF692G6-345B1	JNF792-3160	JNF792I-3160	JNF596-3160
Dimension	170 x 170 mm	170 x 170 mm	170 x 170 mm	170 x 170 mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Apollo Lake J3455	Intel Braswell N3160	Intel Braswell N3160	Intel Braswell N3160
Memory	1* DDR3L 1866MHz SODIMM up to 8GB	2* DDR3L 1600MHz SODIMM up to 8GB	2* DDR3L 1600MHz SODIMM up to 8GB	1* DDR3L 1600MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	1 SATAIII	1 SATAIII	1 SATAIII
eMMC	No	No	No	No
mSATA	1 Full Size	No	No	1 Full Size
Mini PCIe	1 Full Size	1 Full Size	1 Full Size	1 Full Size
M.2	No	1 (M-key 2242/2260)	1 (M-key 2242/2260)	No
SIM Card Holder	1 INT	1 INT	1 INT	1 INT
Audio	No	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD
Ethernet	6* Intel i211AT GbE (2* ByPass)	2* Realtek RTL8111H GbE	2* Intel i211AT GbE	2* Realtek RTL8111G GbE
USB	2 EXT USB 3.0 2 INT USB 2.0	3 EXT USB 3.0 1 EXT USB 2.0 6 INT USB 2.0	3 EXT USB 3.0 1 EXT USB 2.0 4 INT USB 2.0	4 EXT USB 3.0 3 INT USB 2.0
COM	1 EXT RS232 (RJ45) 1 INT RS232/422/485 2 INT RS232	1 EXT RS232 1 EXT RS232/422/485 4 INT RS232 (5V/12V)	1 EXT RS232 1 EXT RS232/422/485 2 INT RS232 (5V/12V)	1 EXT RS232 1 EXT RS232/422/485 4 INT RS232 (5V/12V)
RJ11	No	No	No	No
Parallel	No	1 EXT	1 EXT	No
HDMI	1 INT	1 EXT	1 EXT	1 EXT
VGA	No	1 EXT	1 EXT	No
DVI	No	No	No	1 EXT DVI-D
DisplayPort	No	No	No	No
LVDS / eDP	No	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS
Multiple Display	No	Triple	Triple	Triple
PS/2	1 INT	1 INT	1 INT	1 INT
Expansion Slot	1* PCIe x1 (Horizontal)	1* PCIe x1	1* PCI	1* PCIe x1
TPM	No	TPM2.0 onboard option	TPM2.0 onboard option	No
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	12V 2-pin header	24pin ATX	24pin ATX	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
Page	32	33	34	35

Form Factor	Mini ITX			
Category	Braswell	Bay Trail	Bay Trail	Bay Trail
Model	JNF591-3160	MI97-30	MI97-32	JNF9T-2930
Dimension	170 x 170 mm	170 x 170 mm	170 x 170 mm	170 x 170 mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Braswell N3160	Intel Bay Taril N2930	Intel Bay Taril N2930	Intel Bay Taril N2930
Memory	2* DDR3L 1600MHz SODIMM up to 8GB	1* DDR3L1333MHz SODIMM up to 8GB	1* DDR3L1333MHz SODIMM up to 8GB	1* DDR3L1333MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	2 SATAII (1 share w/M.2)	1 SATAII	1 SATAII	2 SATAII (1 share w/mSATA)
eMMC	No	No	No	No
mSATA	No	No	No	1 Full Size (Shared SATA2)
Mini PCIe	1 Full Size	No	No	1 Half size
M.2	1 (M-key 2242/2260/2280)	1 (M-key 2242/2280) 1 (E Key 2230) 1 (B-Key 3042)	1 (M-key 2242/2280) 1 (E Key 2230) 1 (B-Key 3042)	No
SIM Card Holder	1 INT	1 INT	1 INT	No
Audio	Realtek ALC662VD W/3W Amplifier	Realtek ALC662 W/3W Amplifier	Realtek ALC662 W/3W Amplifier	Realtek ALC662 W/3W Amplifier
Ethernet	2* Realtek RTL8111G GbE	1* Intel i211AT GbE	1* Intel i211AT GbE	1* Intel 82583V GbE
USB	4 EXT USB 3.0 3 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 4 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 4 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 5 INT USB 2.0
COM	1 EXT RS232/422/485 5 INT RS232 (5V/12V)	1 EXT RS232/422/485 1 EXT RS232 3 INT RS232 (5V/12V)	1 EXT RS232/422/485 1 EXT RS232 3 INT RS232 (5V/12V)	1 EXT RS232/422/485 1 EXT RS232 3 INT RS232 (5V/12V)
RJ11	No	No	No	No
Parallel	No	1 EXT	1 EXT	1 EXT
HDMI	No	1 EXT	1 EXT	1 EXT
VGA	1 INT	1 EXT	1 EXT	1 EXT
DVI	1 EXT DVI-D	No	No	No
DisplayPort	No	No	No	No
LVDS / eDP	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS (co-lay eDP)	1* 24 Bit Dual CH LVDS (co-lay eDP)	1* 24 Bit Dual CH LVDS
Multiple Display	Triple	Dual	Dual	Dual
PS/2	1 INT	1 EXT	1 EXT	1 EXT
Expansion Slot	1* PCIe x1	1* PCIe x1	1* PCIe x1	1* PCIe x1
TPM	No	No	Onboard 2.0	No
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	12V Lockable DC-in jack	12V DC-in jack	12V DC-in jack	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
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Form Factor	Mini ITX			
Category	Bay Trail	Bay Trail	Bay Trail	Bay Trail
Model	JNF9U-2930	JNF9N-2930	JNF9M-2930	JNF9HG-2930
Dimension	170 x 170 mm	170 x 170 mm	170 x 170 mm	170 x 170 mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Bay Taril N2930	Intel Bay Taril N2930	Intel Bay Taril N2930	Intel Bay Taril N2930
Memory	1* DDR3L1333MHz SODIMM up to 8GB	2* DDR3L 1333MHz SODIMM up to 8GB	2* DDR3L 1333MHz SODIMM up to 8GB	2* DDR3L 1333MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	2 SATAII (1 share w/mSATA)	2 SATAII (1 share w/mSATA)	2 SATAII (1 share w/mSATA)	2 SATAII (1 share w/mSATA)
eMMC	No	No	No	No
mSATA	1 Full Size (Shared SATA2)	1 Full Size (Shared SATA2)	1 Full Size (Shared SATA2)	1 Full Size (Shared SATA2)
Mini PCIe	1 Half Size	1 Full Size	1 Full Size	1 Full Size
M.2	No	No	No	No
SIM Card Holder	No	No	No	1 INT
Audio	Realtek ALC662 W/3W Amplifier	Realtek ALC662VD	Realtek ALC662	No
Ethernet	2* Realtek RTL8111G GbE	1* Intel i211AT GbE	1* Realtek RTL8111G GbE	4* Intel i211AT GbE
USB	1 EXT USB 3.0 3 EXT USB 2.0 4 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 4 INT USB 2.0	1 EXT USB 3.0, 3 EXT USB 2.0, 2 INT USB 3.0, 2 INT USB 2.0	1 EXT USB 3.0 1 EXT USB 2.0 4 INT USB 2.0
COM	1 EXT RS232/422/485 5 INT RS232 (5V/12V)	1 EXT RS232 1 INT RS232	1 EXT RS232/422/485 3 INT RS232 (5V/12V)	1 EXT RS232 1 INT RS232 (5V/12V)
RJ11	1 EXT	No	No	No
Parallel	1 EXT	1 INT	1 INT	No
HDMI	1 EXT	1 EXT	No	No
VGA	1 EXT	1 EXT	No	1 INT
DVI	No	No	1 EXT DVI-I	No
DisplayPort	No	No	No	No
LVDS / eDP	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS	No
Multiple Display	Dual	Dual	Dual	No
PS/2	1 EXT	1 EXT	1 INT	1 INT
Expansion Slot	1* PCIe x1	1* PCIe x1	1* PCIe x1	1* PCIe x 1 (Vertical or at side)
TPM	TPM2.0 onboard option	No	No	TPM2.0 onboard option
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	9~24V DC-in jack	12V DC-in jack	9~36V DC-in jack	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
Page	39	40	41	42

Form Factor	Mini ITX			
Category	Bay Trail	Bay Trail	Bay Trail	Bay Trail
Model	JNF9HB-2930	JNC7K-I1900	JIMB-1900-2L	JNLBT-I1900
Dimension	170 x 170 mm	170 x 170 mm	170 x 170 mm	170 x 170 mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Bay Taril N2930	Intel Bay Taril J1900	Intel Bay Taril J1900	Intel Bay Taril J1900
Memory	2* DDR3L 1333MHz SODIMM up to 8GB	1* DDR3L1333MHz SODIMM up to 8GB	1* DDR3L1333MHz SODIMM up to 8GB	1* DDR3L1333MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	2 SATAII (1 share w/mSATA)	1 SATAII	1 SATAII	1 SATAII
eMMC	No	No	No	No
mSATA	1 Full Size (Shared SATA2)	1 Full Size	No	1 Full Size
Mini PCIe	1 Full Size	1 Full Size	1 Full Size	1 Full Size
M.2	No	No	1 (M-key 2242/2260)	No
SIM Card Holder	1 INT	No	1 INT	No
Audio	No	Realtek ALC662 W/3W Amplifier	Realtek ALC662 W/3W Amplifier	Realtek ALC662 W/3W Amplifier
Ethernet	4* Intel i211AT GbE (2* LAN ByPass)	1* Realtek RTL8111G GbE	2* Realtek RTL8111G GbE	1* Realtek RTL8111G GbE
USB	1 EXT USB 3.0 1 EXT USB 2.0 4 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 5 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 6 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 2 INT USB 2.0
COM	1 EXT RS232 1 INT RS232 (5V/12V)	1 EXT RS232 3 INT RS232	2 INT RS232/422/485 10 INT RS232	1 EXT RS232 5 INT RS232
RJ11	No	No	No	No
Parallel	No	1 INT	1 INT	1 INT
HDMI	No	No	1 INT	1 INT
VGA	1 INT	1 EXT	1 EXT	1 EXT
DVI	No	No	No	No
DisplayPort	No	No	No	No
LVDS / eDP	No	1* 24 Bit Dual CH 1* EDP	1* 24 Bit Dual CH	1* 24 Bit Dual CH
Multiple Display	No	Dual	Dual	Dual
PS/2	1 INT	1 INT	1 INT	1 INT
Expansion Slot	1* PCIe x 1 (Vertical or at side)	No	No	1* PCIe x1
TPM	TPM2.0 onboard option	No	No	No
SMBus	Yes	No	No	No
GPIO	Yes	Yes	Yes	Yes
Power	12V DC-in jack	12V 4-pin DC-in jack	12V DC-in jack	12V 4-pin DC-in jack
AT Mode	Yes	No	Yes	No
Page	43	44	45	46

Form Factor	Mini ITX			
Category	Bay Trail	Denverton	10th Gen. Platform	10th Gen. Platform
Model	JNLBT-I1900-2L	JNF699-C3758	MI92-10	MI92-12
Dimension	170 x 170 mm	170 x 170 mm	170 x 170mm	170 x 170mm
Chipset	SoC	SoC	Intel Q470E	Intel Q470E
Processor	Intel Bay Trail J1900	Intel Denverton C3758	LGA1200 socket 10th Gen processor	LGA1200 socket 10th Gen processor
Memory	1* DDR3L1333MHz SODIMM up to 8GB	4* DDR4 2400/2133 MHz UDIMM/RDIMM up to 64GB/256GB w/ ECC	2* DDR4 2666/2933MHz SODIMM up to 32GB	2* DDR4 2666/2933MHz SODIMM up to 32GB
Integrated Graphics	Intel GFX	N/A	Intel GFX	Intel GFX
SATA	1 SATAII	4 SATAIII	4 SATAIII Support RAID 0,1, 5,10	4 SATAIII Support RAID 0,1, 5,10
eMMC	No	No	No	No
mSATA	1 Full Size	No	No	No
Mini PCIe	1 Full Size	1 Full Size	No	No
M.2	No	1 (M-key 2242/2260/2280)	1 (M-key 2280, SATA/PCIe x4) support NVMe 1 (E Key 2230, PCIe x1/USB2.0) support CNVi	1 (M-key 2280, SATA/PCIe x4) support NVMe 1 (E Key 2230, PCIe x1/USB2.0) support CNVi
SIM Card Holder	No	No	No	No
Audio	Realtek ALC662 W/3W Amplifier	No	Realtek ALC662VD	Realtek ALC662VD
Ethernet	2* Realtek RTL8111G GbE	2* Intel i211AT GbE, 4* 10GbE SFP+	2* Intel GbE (i219LM, i211AT)	2* Intel GbE (i219LM, i211AT)
USB	1 EXT USB 3.0 3 EXT USB 2.0 2 INT USB 2.0	3 EXT USB 3.0 2 INT USB 2.0	4 EXT USB3.1(Gen2) 2 EXT USB3.1(Gen.1) 2 INT USB2.0	4 EXT USB3.1(Gen2) 2 EXT USB3.1(Gen.1) 2 INT USB2.0
COM	1 EXT RS232/422/485 5 INT RS232	2 INT RS232	2 EXT RS232/422/485	2 EXT RS232/422/485
RJ11	No	No	No	No
Parallel	1 EXT	No	No	No
HDMI	1 INT	No	2 EXT	2 EXT
VGA	1 EXT	1 INT	No	No
DVI	No	No	No	No
DisplayPort	No	No	1 EXT	1 EXT
LVDS / eDP	1* 24 Bit Dual CH	No	1* eDP	1* eDP
Multiple Display	Dual	No	Triple	Triple
PS/2	1 INT	No	1 INT	1 INT
Expansion Slot	1* PCIe x1	1* PCIe x8 (use PCIe x16 slot)	1* PCIe x16	1* PCIe x16
TPM	No	TPM1.2 onboard	No	TPM2.0 onboard
SMBus	No	No	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	12V 4-pin DC-in jack	24pin ATX + 8pin 12V	24pin ATX + 4pin 12V	24pin ATX + 4pin 12V
AT Mode	No	Yes	Yes	Yes
Page	47	48	49	49

Form Factor	Mini ITX			
Category	8th Gen. Platform	8th Gen. Platform	8th Gen. Platform	8th Gen. Platform
Model	MI98-00	MI98-02	JNC8H-IH310	JNF893-H310
Dimension	170 x 170mm	170 x 170mm	170 x 170mm	170 x 170mm
Chipset	Intel H310	Intel H310	Intel H310	Intel H310
Processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 8th/9th Gen processor
Memory	2* DDR4 2400/2666MHz SODIMM up to 32GB	2* DDR4 2400/2666MHz SODIMM up to 32GB	2* DDR4 2400/2666MHz SODIMM up to 32GB	2* DDR4 2400/2666MHz SODIMM up to 32GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	2 SATAIII	2 SATAIII	1 SATAIII	2 SATAIII
eMMC	No	No	No	No
mSATA	No	No	No	No
Mini PCIe	No	No	No	No
M.2	1 (M-key 2242/2280, SATA/PCIe x4) support NVMe 1 (E Key 2230, PCIe x1/USB2.0) support CNVi	1 (M-key 2242/2280, SATA/PCIe x4) support NVMe 1 (E Key 2230, PCIe x1/USB2.0) support CNVi	1 (M Key 2242) 1 (E Key 2230)	1 (M Key 2242/2260/2280, SATA interface) 1 (E Key 2230)
SIM Card Holder	No	No	No	No
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD W/3W Amplifier
Ethernet	1* Intel i219V GbE 1* Realtek 8111H GbE	1* Intel i219V GbE 1* Realtek 8111H GbE	2* Intel Gigabit (i219V, i211AT)	1* Intel I219-V GbE
USB	4 EXT USB 3.1 (Gen1) 4 INT USB 2.0	4 EXT USB 3.1(Gen1) 4 INT USB 2.0	4 EXT USB 3.1(Gen1) 5 INT USB 2.0	4 EXT USB 3.1(Gen1) 4 INT USB 2.0
COM	1 EXT RS232 1 EXT RS232/422/485	1 EXT RS232 1 EXT RS232/422/485	4 INT RS232	1 INT RS232
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 EXT	1 EXT	1 EXT	1 EXT
VGA	No	No	1 EXT	No
DVI	No	No	No	No
DisplayPort	1 EXT	1 EXT	No	1 EXT
LVDS / eDP	1* eDP	1* eDP	1* 24 Bit Dual CH LVDS (option w/eDP)	1* 24 Bit Dual CH LVDS (option w/ eDP)
Multiple Display	Dual	Dual	Dual	Dual
PS/2	1 INT	1 INT	1 INT	1 INT
Expansion Slot	1* PCIe x16	1* PCIe x16	1* PCIe x4	1* PCIe x1
TPM	No	TPM2.0 onboard	TPM2.0 onboard option	TPM2.0 onboard option
SMBus	No	No	Yes	No
GPIO	Yes	Yes	Yes	Yes
Power	24pin ATX + 4pin 12V	24pin ATX + 4pin 12V	12~24V DC-in jack	19V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
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Form Factor	Mini ITX			
Category	8th Gen. Platform	8th Gen. Platform	8th Gen. Platform	8th Gen. Platform
Model	JNF797-Q370	JNF796M-H310	JNF796M-Q370	JNF796M-C246
Dimension	170 x 170mm	170 x 170mm	170 x 170mm	170 x 170mm
Chipset	Intel Q370	Intel H310	Intel Q370	Intel C246
Processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 8th/9th Gen processor
Memory	2* DDR4 2400/2666MHz SODIMM up to 32GB	2* DDR4 2400/2666MHz SODIMM up to 32GB	2* DDR4 2400/2666MHz SODIMM up to 32GB	2* DDR4 W/ECC 2400/2666MHz SODIMM up to 32GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	2 SATAIII Support RAID 0,1	3 SATAIII	5 SATAIII Support RAID 0,1, 5,10	5 SATAIII Support RAID 0,1, 5,10
eMMC	No	No	No	No
mSATA	No	No	No	No
Mini PCIe	No	No	No	No
M.2	1 (M Key 2242/2260/2280, SATA/PCIe x4) support NVMe 1 (E Key 2230, PCIe x1) support CNVi	1 (M Key 2242/2280, SATA/PCIe x4) support NVMe 1 (E Key 2230, PCIe x1/USB2.0) support CNVi	1 (M Key 2242/2280, SATA/PCIe x4) support NVMe 1 (E Key 2230, PCIe x1/USB2.0) support CNVi	1 (M Key 2242/2280, SATA/PCIe x4) support NVMe 1 (E Key 2230, PCIe x1/USB2.0) support CNVi
SIM Card Holder	No	No	No	No
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD
Ethernet	2* Intel GbE (i219LM, i211AT)	2* Intel GbE (i219LM, i211AT)	2* Intel GbE (i219LM, i211AT)	2* Intel GbE (i219LM, i211AT)
USB	4 EXT USB 3.1(Gen2) 2 INT USB 3.1(Gen2) 4 INT USB 2.0	4 EXT USB 3.1 (Gen 1) 2 INT USB 2.0	4 EXT USB 3.1 (Gen 2), 2 EXT USB 3.1 (Gen 1), 4 INT USB 3.1 (Gen 1), 2 INT USB 2.0	4 EXT USB 3.1 (Gen 2), 2 EXT USB 3.1 (Gen 1), 4 INT USB 3.1 (Gen 1), 2 INT USB 2.0
COM	2 EXT RS232/422/485	2 EXT RS232/422/485 4 INT RS232	2 EXT RS232/422/485 4 INT RS232	2 EXT RS232/422/485 4 INT RS232
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 EXT (select w/DP)	1 EXT	1 EXT	1 EXT
VGA	No	1 EXT	1 EXT	1 EXT
DVI	No	No	No	No
DisplayPort	2 EXT	1 EXT	1 EXT	1 EXT
LVDS / eDP	1* eDP	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS
Multiple Display	Triple	Triple	Triple	Triple
PS/2	1 INT	1 INT	1 INT	1 INT
Expansion Slot	1* PCIe x4 (Horizontal)	1* PCIe x16	1* PCIe x16	1* PCIe x16
TPM	TPM2.0 onboard option	TPM2.0 onboard option	TPM2.0 onboard option	TPM2.0 onboard option
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	9~36V DC-in jack	24pin ATX + 4pin 12V	24pin ATX + 4pin 12V	24pin ATX + 4pin 12V
AT Mode	Yes	Yes	Yes	Yes
Page	53	54	55	55

Form Factor	Mini ITX			
Category	7th Gen. Platform	6th Gen. Platform	6th Gen. Platform	6th Gen. Platform
Model	JNC6J-I7100-2L	JNC8D-I3855	JNC8D-I3855-2L	JNF795-Q170
Dimension	170 x 170mm	170 x 170mm	170 x 170mm	170 x 170 mm
Chipset	SoC	SoC	SoC	Intel Q170
Processor	Intel Kabylake i3-7100U	Intel SkyLake Celeron 3855U	Intel SkyLake Celeron 3855U	LGA1151 socket 7th/6th Gen processor
Memory	1* DDR4 2133MHz SODIMM up to 16GB	1* DDR4 2133MHz SODIMM up to 16GB	1* DDR4 2133MHz SODIMM up to 16GB	2* DDR4 2133MHz SODIMM up to 32GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	1 SATAIII	1 SATAIII	4 SATAIII Support RAID 0,1, 5,10
eMMC	No	No	No	No
mSATA	No	1 Full Size	1 Full Size	1 Full size (SATA+USB)
Mini PCIe	1 Full Size	1 Full Size	1 Full Size	1 Half size (PCIe+USB)
M.2	1 (M-Key 2242/2260)	No	No	1 (E-key 2230)
SIM Card Holder	1 INT	1 INT	1 INT	1 INT (back)
Audio	Realtek ALC662GR W/3W Amplifier	Realtek ALC662 W/3W Amplifier	Realtek ALC662 W/3W Amplifier	No
Ethernet	2* Realtek RTL8111G GbE	1* Realtek RTL8111G GbE	2* Realtek RTL8111G GbE	4* Intel GbE (1* i219LM, 3* i211AT)
USB	2 EXT USB 3.0 2 INT USB 3.0 3 INT USB 2.0	4 EXT USB 3.0 2 EXT USB 2.0 2 INT USB 2.0	4 EXT USB 3.0 4 INT USB 2.0	4 EXT USB 3.0 2 INT USB 3.0 2 INT USB 2.0
COM	2 INT RS232/422/485 8 INT RS232	4 INT RS232	4 INT RS232	1 EXT RS232 (RJ45 type)
RJ11	No	No	No	No
Parallel	1 INT	No	No	No
HDMI	1 EXT	1 EXT	1 EXT	1 EXT
VGA	1 EXT	1 INT	1 INT	No
DVI	No	No	No	No
DisplayPort	1 EXT	No	No	No
LVDS / eDP	1* 24 Bit Dual CH LVDS 1* eDP(Optional)	1* 24 Bit Dual CH LVDS 1* eDP	1* 24 Bit Dual CH LVDS 1* eDP	1* 24 Bit Dual CH
Multiple Display	Triple	Triple	Triple	Dual
PS/2	1 INT	1 INT	1 INT	1 INT
Expansion Slot	No	No	No	1* PCIe x 16
TPM	No	No	No	TPM2.0 onboard option
SMBus	Yes	Yes	Yes	No
GPIO	Yes	Yes	Yes	Yes
Power	12V DC-in jack	12V DC-in jack	12V DC-in jack	24pin ATX + 4pin 12V
AT Mode	Yes	Yes	Yes	Yes
Page	56	57	58	59

Form Factor	Mini ITX			
Category	6th Gen. Platform	6th Gen. Platform	6th Gen. Platform	6th Gen. Platform
Model	JNF793-Q170	JNF791-3955/3965	JNF697-Q170	JNF693-H110
Dimension	170 x 170 mm	170 x 170mm	170 x 170 mm	170 x 170mm
Chipset	Intel Q170	SoC	Intel Q170	Intel H110
Processor	LGA1151 socket 7th/6th Gen processor	Intel SkyLake 3955U / Kabylake 3965U	LGA1151 socket 7th/6th Gen processor	LGA1151 socket 7th/6th Gen processor
Memory	2* DDR4 2133MHz SODIMM up to 32GB	2* DDR4 2133MHz SODIMM up to 32GB	2* DDR4 2133MHz SODIMM up to 32GB	2* DDR4 2133MHz SODIMM up to 32GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	4 SATAIII Support RAID 0,1, 5,10	1 SATAIII	4 SATAIII Support RAID 0,1, 5,10	2 SATAIII
eMMC	No	No	No	No
mSATA	1 Full Size	1 Full Size (shared)	No	1 Full Size (shared)
Mini PCIe	1 Half size	1 Full Size 1 Full Size (Shared)	1 Full Size	1 Full Size (shared)
M.2	No	No	No	1 (M-Key 2242/2260)
SIM Card Holder	1 INT	No	1 INT	1 INT
Audio	Realtek ALC662VD	Realtek ALC662VD W/3W Amplifier	Realtek ALC662VD	Realtek ALC662VD
Ethernet	2* Intel GbE (i219LM, i211AT)	2* Realtek RTL8111H GbE	2* Intel GbE (i219LM, i211AT)	2* Realtek RTL8111G GbE
USB	4 EXT USB 3.0 2 INT USB 2.0	4 EXT USB 3.0 5 INT USB 2.0	4 EXT USB 3.0 2 INT USB 2.0	4 EXT USB 3.0 4 INT USB 2.0
COM	2 EXT RS232/422/485 4 INT RS232	1 EXT RS232/422/485 9 INT RS232	2 EXT RS232/422/485 4 INT RS232	1 EXT RS232/422/485, 3 EXT RS232, 1 INT RS232/422/485, 1 INT RS232
RJ11	No	1 EXT	No	No
Parallel	No	1 EXT	No	No
HDMI	3 EXT	1 EXT	1 EXT	1 EXT
VGA	No	1 EXT	No	No
DVI	No	No	No	No
DisplayPort	1 EXT (option W/HDMI)	No	2 EXT	1 EXT
LVDS / eDP	No	1* 24 Bit Dual CH 1* eDP (selectable W/LVDS)	1* 24 Bit Dual CH	1* eDP
Multiple Display	Triple	Triple	Triple	Dual
PS/2	1 INT	1 EXT	1 INT	1 INT
Expansion Slot	1* PCIe x 4 (Horizontal)	1* PCIe x1	1* PCIe x 4 (Horizontal)	1* PCIe x16
TPM	TPM2.0 onboard option	No	TPM2.0 onboard option	TPM2.0 onboard option
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	9~24V DC-in jack	12V DC-in jack	9~24V DC-in jack	24pin ATX + 4pin 12V
AT Mode	Yes	Yes	Yes	Yes
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Form Factor	Mini ITX			
Category	6th Gen. Platform	6th Gen. Platform	6th Gen. Platform	6th Gen. Platform
Model	JNC6J-I3855-6C	JNF595-H110	JNF594-Q170	JNF592-Q170
Dimension	170 x 170mm	170 x 170mm	170 x 170 mm	170 x 170 mm
Chipset	SoC	Intel H110	Intel Q170	Intel Q170
Processor	Intel SkyLake Celeron 3855U	LGA1151 socket 7th/6th Gen processor	LGA1151 socket 7th/6th Gen processor	LGA1151 socket 7th/6th Gen processor
Memory	1* DDR4 2133MHz SODIMM up to 16GB	2* DDR4 2133MHz SODIMM up to 32GB	2* DDR4 2133MHz SODIMM up to 32GB	2* DDR3L 1600MHz SODIMM up to 16GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	2 SATAIII	4 SATAIII Support RAID 0,1, 5,10	6 SATAIII Support RAID 0,1, 5,10
eMMC	No	No	No	No
mSATA	No	1 Full Size	1 Full size (Shared)	No
Mini PCIe	1 Full Size	1 Full Size	1 Half Size 1 Full Size (Shared)	1 Full Size
M.2	1 (M-Key 2242/2260)	No	No	No
SIM Card Holder	1 INT	No	No	1 INT
Audio	Realtek ALC662GR W/3W Amplifier	Realtek ALC662VD	Realtek ALC662VD	No
Ethernet	1* Realtek RTL8111G GbE	1* Intel i219V GbE	2* Intel GbE (i219LM, i211AT)	8* Intel GbE (1* i219LM, 7* i211AT)
USB	2 EXT USB 3.0, 2 EXT USB2.0, 2 INT USB 3.0, 1 INT USB 2.0	4 EXT USB 3.0 4 INT USB 2.0	6 EXT USB 3.0 2 INT USB 2.0	2 EXT USB 3.0 4 INT USB 2.0
COM	1 INT RS232/422/485 5 INT RS232	1 INT RS232/422/485 1 INT RS232	1 EXT RS232/422/485, 1 EXT RS232, 1 INT RS232/422/485, 1 INT RS232	1 EXT RS232 (RJ45 type)
RJ11	No	No	No	No
Parallel	1 INT	No	No	No
HDMI	1 EXT	1 EXT	1 EXT	1 INT
VGA	1 EXT	No	No	No
DVI	No	No	1 DVI-D	No
DisplayPort	No	1 EXT	1 EXT	No
LVDS / eDP	1* 24 Bit Dual CH LVDS 1* eDP(Optional)	1* 24 Bit Dual CH	1* 24 Bit Dual CH	No
Multiple Display	Triple	Dual	Triple	No
PS/2	1 INT	1 INT	1 INT	1 INT
Expansion Slot	No	1* PCIe x1	1* PCIe x16	1* PCIe 4 (Horizontal)
TPM	No	TPM2.0 onboard option	TPM2.0 onboard option	TPM2.0 onboard option
SMBus	Yes	Yes	Yes	No
GPIO	Yes	Yes	Yes	Yes
Power	12V DC-in jack	19V DC-In jack	24pin ATX + 4pin 12V	24pin ATX + 4pin 12V
AT Mode	Yes	Yes	Yes	Yes
Page	64	65	66	67

Form Factor	3.5"			
Category	8th Generation	6th/7th Generation	6th/7th Generation	Gemini Lake
Model	JNF835 Series	JNF731 Series	JNF632E Series	JNF931 Series
Dimension	148 x 102mm	148 x 102mm	148 x 102mm	148 x 102mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Whiskey Lake-U Series	Intel Skylake-U / Kabylake-U	Intel Skylake-U / Kabylake-U	Intel Gemini Lake/Gemini Lake-R
Memory	2* DDR4 2400MHz Dual CH SO-DIMM up to 32GB	1 * DDR4 2133MHz Dual CH SO-DIMM up to 16GB	2 * DDR4 2133MHz Dual CH SO-DIMM up to 32GB	2* DDR4 2400MHz Dual CH SO-DIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	1 SATAIII	1 SATAIII	1 SATAIII
eMMC	No	No	No	32GB
mSATA	No	1 Full Size (shared Mini-PCle)	1 Full Size (shared Mini-PCle)	No
Mini PCIe	No	1 Half Size 1 Full Size (Shared mSATA)	1 Half Size 1 Full Size (Shared mSATA)	No
M.2	1 (M-key 2242/2260/2280, SATA/PCIe x4) support NVMe 1 (E-key 2230, PCIe x1) support CNVi	No	No	1 (M-Key 2242/2280, SATA/PCIe x2) support NVMe 1 (E-Key 2230, PCIe x1) support CNVi
SIM Card Holder	No	1 INT	No	1 EXT
Audio	Realtek ALC662VD	No	Realtek ALC662VD	Realtek ALC662VD W/3W Amplifier
Ethernet	2* Intel GbE (i211AT, i219LM)	4* Intel GbE (3* i211AT, 1* i219LM)	2* Intel GbE (i211AT, i219LM)	1* Intel i211AT GbE
USB	4 EXT USB 3.1 (Gen.2), 1 EXT USB 3.1 (Gen.2 Type-C), 3 INT USB 2.0, 1 INT USB3.1 (Gen.2)	2 EXT USB 3.0 3 INT USB 2.0	4 EXT USB 3.0 2 EXT USB 2.0 5 INT USB 2.0	2 EXT USB3.1(Gen1) 2 EXT USB2.0 2 INT USB2.0
COM	1 INT RS232/422/485 5 INT RS232	1 EXT RS232 1 INT RS232/422/485	1 INT RS232/422/485 5 INT RS232	1 INT RS232
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 EXT	1 INT	1 EXT	2 EXT
VGA	No	No	No	No
DVI	No	No	No	No
DisplayPort	1 EXT	No	1 EXT	No
LVDS / eDP	1* 24 Bit Dual CH LVDS (select W/eDP)	No	1* 24 Bit Dual CH LVDS (select W/eDP)	1* eDP
Multiple Display	Triple	No	Triple	Triple
PS/2	1 INT	1 INT	1 INT	No
Expansion Slot	No	No	No	No
TPM	TPM2.0 onboard option	TPM2.0 onboard option	TPM2.0 onboard option	No
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	9~24V DC-in jack	12V Lockable DC-in jack	9~24V DC-in jack	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
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Form Factor	3.5"			
Category	Apollo Lake	Apollo Lake	Apollo Lake	Apollo Lake
Model	MF94-00	MF94-90	JNF832-3455	JNF631-3455
Dimension	148 x 102mm	148 x 102mm	148 x 102mm	148 x 102mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Apollo Lake J3455	Intel Apollo Lake E3940	Intel Apollo Lake J3455	Intel Apollo Lake J3455
Memory	1* DDR3L 1866MHz SODIMM up to 8GB	1* DDR3L 1866MHz SODIMM up to 8GB	1* DDR3L 1866MHz SODIMM up to 8GB	1* DDR3L 1866MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	1 SATAIII	1 SATAIII	1 SATAIII
eMMC	No	No	No	No
mSATA	No	No	No	No
Mini PCIe	1 Full Size	1 Full Size	1 Full Size	1 Full Size
M.2	1 (M-Key 2242, SATA interface) 1 (B-Key 3042)	1 (M-Key 2242, SATA interface) 1 (B-Key 3042)	1 (M-Key 2242/2280, SATA interface) 1 (E-Key 2230, PCIe x1 interface)	1 (M-Key 2242, SATA interface)
SIM Card Holder	1 EXT	1 EXT	1 EXT	1 INT
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662
Ethernet	2* Intel i211AT GbE	2* Intel i211AT GbE	1* Realtek RTL8111H GbE	2* Intel i211AT GbE
USB	3 EXT USB3.1(Gen1) 1 EXT USB2.0 2 INT USB2.0	3 EXT USB3.1(Gen1) 1 EXT USB2.0 2 INT USB2.0	4 EXT USB 3.0 2 INT USB 2.0	4 EXT USB 3.0 2 INT USB 2.0
COM	1 INT RS232 1 INT RS232/422/485	1 INT RS232 1 INT RS232/422/485	1 INT RS232	1 EXT RS232 (RJ45 Type) 1 INT RS232/422/485 4 INT RS232
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 EXT	1 EXT	2 EXT	No
VGA	No	No	No	No
DVI	No	No	No	No
DisplayPort	No	No	No	2 EXT
LVDS / eDP	1* 24 Bit Dual CH LVDS 1* eDP	1* 24 Bit Dual CH LVDS 1* eDP	1* eDP	1* eDP
Multiple Display	Triple	Triple	Triple	Triple
PS/2	No	No	No	1 INT
Expansion Slot	No	No	No	1 EXT micro SD card
TPM	TPM2.0 onboard option	TPM2.0 onboard option	TPM2.0 onboard option	No
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	9~36V DC-in jack	9~36V DC-in jack	12V DC-in jack	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
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Form Factor	3.5"			
Category	Braswell	Bay Trail	Bay Trail	Bay Trail
Model	JNF531M-3160	JNF831-2930	JNF533M-1900	JNF532-2930
Dimension	148 x 102mm	148 x 102mm	148 x 102mm	148 x 102mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Braswell N3160	Intel Bay Taril N2930	Intel Bay Taril J1900	Intel Bay Taril N2930
Memory	1* DDR3L 1600MHz SODIMM up to 8GB	1* DDR3L 1333MHz SODIMM up to 8GB	1* DDR3L 1333MHz SODIMM up to 8GB	1* DDR3L 1333MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	1 SATAII	1 SATAII	1 SATAII
eMMC	No	No	No	No
mSATA	No	No	No	1 Full Size (shared Mini-PCle)
Mini PCIe	1 Half Size	1 Full Size	1 Half size 1 Full size	1 Half Size 1 Full Size (Shared mSATA)
M.2	1 (M-Key 2242, SATA interface)	1 (M-Key 2242/2280, SATA interface) 1 (E-Key 2230, PCIe x1 interface)	1 (M-Key 2242, SATA interface)	No
SIM Card Holder	No	1 EXT	1 INT	1 INT
Audio	Realtek ALC662VD	Realtek ALC662	No	Realtek ALC662
Ethernet	2* Intel i211AT GbE	1* Realtek RTL8111H GbE	4* Intel i211AT GbE	2* Realtek RTL8111G GbE
USB	4 EXT USB 3.0 2 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 4 INT USB 2.0	1 EXT USB 3.0 1 EXT USB 2.0 2 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 4 INT USB 2.0
COM	1 EXT RS232 (RJ45 Type) 1 INT RS232/422/485 4 INT RS232	1 INT RS232	1 EXT RS232 1 INT RS232(5V/12V)	1 INT RS232/422/485 (5V/12V) 3 INT RS232
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 EXT	1 EXT	No	No
VGA	No	1 EXT	1 INT	1 INT
DVI	No	No	No	1 EXT DVI-D
DisplayPort	1 EXT	No	No	No
LVDS / eDP	1* 24 Bit Dual CH LVDS	1* eDP	No	No
Multiple Display	Triple	Dual	No	Dual
PS/2	No	1 INT	1 INT	1 INT
Expansion Slot	No	No	No	No
TPM	No	TPM2.0 onboard option	No	No
SMBus	No	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	9~36V Lockable DC-in jack	12V DC-in jack	12V Lockable DC-in jack	9~24V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
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Form Factor	3.5"		uTX	
Category	Bay Trail	Bay Trail	Apollo Lake	6th/7th Generation
Model	JNF3AE-1900	JNF3A-2930	MT95-90	JNU792C2S-7100U
Dimension	148 x 102mm	148 x 102mm	112 x 117mm	112 x 117mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Bay Taril J1900	Intel Bay Taril N2930	Intel Apollo Lake E3940	Intel Kabylake i3-7100U
Memory	1* DDR3L 1333MHz SODIMM up to 8GB	1* DDR3L 1333MHz SODIMM up to 8GB	1* DDR3L 1866MHz SODIMM up to 8GB	2* DDR4 2133MHz SODIMM up to 32GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAII	1 SATAII	1 SATAIII	1 SATAIII
eMMC	No	No	No	No
mSATA	1 Full Size (shared Mini-PCle)	1 Full Size (shared Mini-PCle)	No	1 Full Size (shared Mini-PCle)
Mini PCIe	1 Half Size 1 Full Size (Shared mSATA)	1 Half Size 1 Full Size (Shared mSATA)	No	1 Half Size 1 Full Size (Shared mSATA)
M.2	No	No	1 (M-key 2242, SATA interface) 1 (E-key 2230, PCIe x1/USB2.0 interface) 1 (B-key, 3042, USB3.0 interface)	No
SIM Card Holder	No	No	1 INT	1 EXT
Audio	Realtek ALC662 W/OP Amplifier	Realtek ALC662	Realtek ALC662VD	Realtek ALC662VD
Ethernet	2* Realtek RTL8111G GbE	2* Realtek RTL8111G GbE	2* Intel i210IT GbE	2* Intel GbE (i211AT, i219LM)
USB	1 EXT USB 3.0 3 EXT USB 2.0 4 INT USB 2.0	1 EXT USB 3.0 3 EXT USB 2.0 4 INT USB 2.0	2 Rear USB 3.1 (Gen.1) 2 Front USB 3.1 Gen.1)	2 Front USB 3.0, 2 Front USB 2.0, 4 Rear USB 3.0, 3 INT USB 2.0
COM	1 INT RS232/422/485 (5V/12V) 3 INT RS232	1 INT RS232/422/485 (5V/12V) 3 INT RS232	1 EXT RS232 (RJ45 type)	1 EXT RS232/422/485
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	No	No	2 EXT	1 EXT
VGA	1 EXT	No	No	No
DVI	No	1 EXT DVI-I	No	No
DisplayPort	No	No	No	1 EXT
LVDS / eDP	1 * 24 Bit Dual CH LVDS (Selectable w/ eDP)	1* 24 Bit Dual CH LVDS	No	No
Multiple Display	Dual	Dual	Dual	Dual
PS/2	1 INT	1 INT	No	No
Expansion Slot	No	No	No	No
TPM	No	No	No	TPM2.0 onboard option
SMBus	Yes	Yes	Yes	No
GPIO	Yes	Yes	Yes	Yes
Power	9~24V DC-in jack	9~24V DC-in jack	12V DC-in jack	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
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Form Factor	uTX	NUC		
Category	6th/7th Generation	8th/10th Generation	Apollo Lake	Braswell
Model	JNU792V2S-3965U	JNU95-8265	JNU691-3455	JNU591-3160
Dimension	112 x 117mm	101 * 101mm	101 x 101mm	101 x 101mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Kabylake Celeron 3865U	Intel® Whiskey Lake-U 8265U CPU	Intel Apollo Lake J3455	Intel Braswell N3160
Memory	2* DDR4 2133MHz SODIMM up to 32GB	2* DDR4 2400/2133MHz SODIMM up to 32GB	1* DDR3L 1866MHz SODIMM up to 8GB	1* DDR3L 1600MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	1 SATAIII	1 SATAIII	1 SATAIII
eMMC	No	No	No	No
mSATA	1 Full Size (shared Mini-PCle)	No	1 Full Size (shared Mini-PCle)	1 Full Size (shared Mini-PCle)
Mini PCIe	1 Half Size 1 Full Size (Shared mSATA)	No	1 Half size	1 Half Size 1 Full Size (Shared mSATA)
M.2	No	1 (M-Key 2242) 1 (E-Key 2230)	No	No
SIM Card Holder	1 EXT	No	1 INT	1 INT
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD
Ethernet	2* Intel GbE (i211AT, i219LM)	2* Intel GbE (i211AT, i219LM)	2* Realtek RTL8111H GbE	2* Intel i211AT GbE
USB	2 Front USB 3.0, 2 Front USB 2.0, 2 Rear USB 3.0, 2 Rear USB 2.0, 1 INT USB 2.0	2 Front USB 3.1/3.2, 2 Rear USB 3.1/3.2, 2 INT USB 2.0	2 Front USB 3.0, 2 Rear USB 3.0, 2 INT USB 2.0	2 Front USB 3.0, 2 Rear USB 3.0, 2 INT USB 2.0
COM	No	1 EXT RS232/422/485 (5V/12V)	1 Front RS232/422/485	1 Front RS232/422/485
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 EXT	2 EXT	2 EXT (Rear)	2 EXT (Rear)
VGA	1 EXT (Front)	No	1 EXT (Front)	No
DVI	No	No	No	No
DisplayPort	No	1 EXT	No	1 EXT (Rear)
LVDS / eDP	No	No	No	No
Multiple Display	Dual	Triple	Triple	Triple
PS/2	No	No	No	No
Expansion Slot	No	No	No	No
TPM	TPM2.0 onboard option	No	TPM2.0 onboard option	No
SMBus	No	No	Yes	No
GPIO	Yes	Yes	Yes	Yes
Power	12V DC-in jack	12~24V DC-in jack	12V DC-in jack	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
Page	83	84	85	86

Form Factor	NUC		EPIC	
Category	Bay Trail	Bay Trail	6th/7th Generation	Bay Trail
Model	JNU93-2930	JNU91-2930	JNC7P-E7100	JNLBT-IE1900
Dimension	101 x 101mm	101 x 101mm	120mm x168mm	115 x 165mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Bay Taril N2930	Intel Bay Taril N2930	Intel® Kaby Lake-i3 7100U(CO-LAY I3/I5/I7 Series)	Intel Bay Taril J1900
Memory	1* DDR3L 1333MHz SODIMM up to 8GB	1* DDR3L 1333MHz SODIMM up to 8GB	1* DDR4 2133MHz up to 16GB	1* DDR3L 1333MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAII	No	1 SATAIII	1 SATAII
eMMC	No	No	No	No
mSATA	1 Full size	1 Full size	No	1 Full size
Mini PCIe	1 Half size	1 Half size	No	1 Half size
M.2	No	No	1 (M-Key 2242) 1 (E-key 2230)	No
SIM Card Holder	No	No	No	1 INT
Audio	Realtek ALC662 W/3W Amplifier	Realtek ALC662	Realtek ALC662 W/3W Amplifier	Realtek ALC662GR W/3W Amplifier
Ethernet	2* Intel i211AT GbE	1* Intel 82574L GbE	2* Intel i211AT GbE	2* Intel i211AT GbE
USB	1 Front USB 3.0, 1 Front USB 2.0, 2 Rear USB 2.0, 2 INT USB 2.0	1 Front USB 3.0 2 Rear USB 2.0	4 EXT USB 3.0 3 INT USB 2.0	1 EXT USB 3.0 1 EXT USB 2.0 4 INT USB 2.0
COM	1 EXT RS232/422/485 (5V/12V)	1 EXT RS232 1 INT RS232 (5V/12V)	2 EXT RS232/422/485 2 INT RS232	1 EXT RS232 2 INT RS232/422/485 3 INT RS232
RJ11	No	No	No	No
Parallel	No	No	No	1 INT
HDMI	2 EXT	2 EXT	1 EXT	1 INT
VGA	No	No	1 INT	1 EXT
DVI	No	No	No	No
DisplayPort	No	No	No	No
LVDS / eDP	No	No	1* 24 Bit Dual CH LVDS 1* eDP	1* 24 Bit Dual CH LVDS
Multiple Display	Dual	Dual	Triple	Dual
PS/2	No	No	1 INT	1 INT
Expansion Slot	No	No	Optional PCIe x1	No
TPM	No	No	No	No
SMBus	No	No	No	No
GPIO	No	No	Yes	Yes
Power	9~24V DC-in jack	9~24V DC-in jack	9~24V DC-in (2-pin PWR Con)	9~24V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
Page	87	88	89	90

Form Factor	EPIC	5.25"	1.8"	PICO-ITX
Category	Bay Trail	6th/7th Generation	Bay Trail	Gemini Lake
Model	JNLBT-IE2930-4G	JNC7B-E7200	JNF711-2807	JNP891G32 Series
Dimension	115 x 165mm	120 x 177mm	84 x 55mm	100 x 72mm
Chipset	SoC	SoC	SoC	SoC
Processor	Intel Bay Trail N2930	Intel® Kaby Lake-U I5-7200U SOC (CO-LAY I3/I5/I7 Series)	Intel Bay Trail N2807	Intel Gemini Lake J4105/ Gemini Lake-R J4125
Memory	4GB DDR3L on board	1* DDR4 2133MHz up to 16GB	2GB DDR3L on board	1* DDR4 2400MHz SODIMM up to 8GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAII	1 SATAIII	No	1 SATAIII
eMMC	No	No	No	32GB
mSATA	1 Full size	1 Full size	1 Full size (shared Mini-PCle)	No
Mini PCIe	1 Half size	2 Full size	1 Full size (shared mSATA)	1 Full size
M.2	No	No	1 (M-Key 2242, SATA interface)	1 (M-Key 2242)
SIM Card Holder	1 INT	2 INT	No	1 INT
Audio	Realtek ALC662GR W/3W Amplifier	Realtek ALC662 W/3W Amplifier	Realtek ALC662VD	Realtek ALC662VD
Ethernet	2* Intel i211AT GbE	Dual Intel GbE (i211AT, i219LM)	1* Intel i211AT GbE	1* Realtek RTL8111H GbE
USB	1 EXT USB 3.0 1 EXT USB 2.0 4 INT USB 2.0	2 EXT USB 3.0 2 INT USB 3.0 8 INT USB 2.0	1 INT USB 3.0 2 INT USB 2.0	2 EXT USB 3.0 2 INT USB 2.0
COM	1 EXT RS232 2 INT RS232/422/485 3 INT RS232	10 INT RS232 (COM1~6 With Powered 5V/12V)	1 INT RS232 1 INT RS232/422/485	1 INT RS232
RJ11	No	No	No	No
Parallel	1 INT	No	No	No
HDMI	1 INT	1 EXT	No	2 EXT
VGA	1 EXT	1 INT	1 INT	No
DVI	No	No	No	No
DisplayPort	No	No	No	No
LVDS / eDP	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS	1* eDP	1* eDP
Multiple Display	Dual	Triple	Dual	Triple
PS/2	1 INT	1 INT	No	No
Expansion Slot	No	No	No	No
TPM	No	No	No	No
SMBus	No	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	9~24V DC-in jack	12~24V DC-in (2-pin PWR Con)	5V 2-pin header	12V DC-in jack
AT Mode	Yes	Yes	Yes	Yes
Page	91	92	93	94

Form Factor	PICO-ITX			Micro ATX
Category	Apollo Lake	Braswell	Bay Trail	8th Generation
Model	JNP691 Series	JNP793D2-3160	JNP93-2930/2807	JLM-0A1
Dimension	100 x 72mm	100 x 72mm	100 x 72mm	244 x 244mm
Chipset	SoC	SoC	SoC	Intel Q370
Processor	Intel Apollo Lake processor	Intel Braswell N3160	Intel Bay Trail N2930/N2807	LGA1151 socket 8th/9th Gen processor
Memory	1* DDR3L 1866MHz SODIMM up to 8GB	2GB DDR3L on board	2GB DDR3L on board	4* DDR4 2666/2400/2133MHz long DIMM DRAM up to 128GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	1 SATAIII	No	1 SATAII	6 SATAIII Support RAID 0,1, 5,10
eMMC	No	No	No	No
mSATA	No	No	1 Full size	No
Mini PCIe	1 Full size	1 Full size	1 Half size	No
M.2	1 (M-Key 2242, SATA interface)	1 (M-Key 2242, SATA interface)	No	1 (M-Key 2242/2280/22110) 1 (M-Key 2242 SATA, Co-lay SATA6) 1 (B-Key 3042/3052) 1 (E-Key 2230)
SIM Card Holder	1 INT	No	No	1 INT (Nano)
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662	Realtek ALC662VD
Ethernet	1* Realtek RTL8111H GbE	2* Intel i211AT GbE	1* Realtek RTL8111G GbE	2* Intel GbE (i219-V, i210AT)
USB	2 EXT USB 3.0 2 INT USB 2.0	2 INT USB 3.0 2 INT USB 2.0	1 EXT USB 3.0 1 EXT USB 2.0 6 INT USB 2.0	4 EXT USB 3.1 2 INT USB 3.0 5 INT USB 2.0 (1 Erect)
COM	1 INT RS232/422/485 1 INT RS232	1 INT RS232/422/485 1 INT RS232	1 INT RS232/422/485 1 INT RS232 (5V/12V)	1 EXT RS232/422/485 1 INT RS232/422/485 4 INT RS232 (COM1~4: 5V/12V TTL)
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 EXT	1 INT	1 EXT	1 EXT
VGA	No	No	1 EXT(select w/HDMI)	1 EXT (Selectable w/ LVDS)
DVI	No	No	No	1 EXT
DisplayPort	No	No	No	1 EXT
LVDS / eDP	1* 24 Bit Dual CH LVDS	1* eDP	1* 24 Bit Dual CH LVDS	1* 24 Bit Dual CH LVDS (Optional, selectable w/VGA)
Multiple Display	Dual	Dual	Dual	Triple
PS/2	No	No	No	1 EXT
Expansion Slot	No	No	No	2* PCIe x 16 2* PCIe x 4
TPM	No	No	No	TPM2.0 onboard option
SMBus	Yes	Yes	No	Yes
GPIO	Yes	Yes	No	Yes
Power	12V DC-in jack	12V 2-pin header	12V DC-in jack	24pin ATX + 8pin 12V
AT Mode	Yes	Yes	Yes	Yes
Page	95	96	97	98

Form Factor	Micro ATX			
Category	8th Generation	8th Generation	8th Generation	6th Generation
Model	JLM-0A2	JNC9AMXM-H310	NMF891-H310	MM91-00
Dimension	244 x 244 mm	220 x 220 mm	244 x 244 mm	244 x 244 mm
Chipset	Intel C246	Intel H310	Intel H310	Intel H110
Processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 8th/9th Gen processor	LGA1151 socket 7th/6th Gen processor
Memory	4* DDR4 2666/2400/2133MHz long DIMM DRAM up to 128GB	2* DDR4 2400MHz up to 32GB	2* DDR4 2666MHz up to 32GB	2* DDR4 2133MHz up to 32GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	8 SATAIII Support RAID 0,1, 5,10	1 SATAIII	3 SATAIII	3 SATAIII
eMMC	No	No	No	No
mSATA	No	No	No	No
Mini PCIe	No	No	1 Full Size	1 Full Size (USB signal only)
M.2	1 M-Key 2242/2280/22110) 1 (M-Key 2242 SATA, Co-lay SATA6) 1 (B-Key 3042/3052) 1 (E-Key 2230)	1 (M-key 2280) 1 (E-key 2230) 1 (B-Key 3042)	1 (M Key 2242/2260 /2280/22110, SATA interface)	1 (M Key 2242/2280/22110, SATA interface)
SIM Card Holder	1 INT (Nano)	1 INT	1 INT	1 INT
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD
Ethernet	2* Intel GbE (i219-V, i210AT)	1* Intel i219LM GbE	2* Realtek RTL8111H GbE	2* Intel GbE (i219V, i211AT)
USB	4 EXT USB 3.1 2 INT USB 3.0 5 INT USB 2.0 (1 Erect)	4 EXT USB 3.1 4 INT USB 2.0	4 EXT USB 3.0 2 EXT USB 2.0 2 INT USB 2.0	4 EXT USB 3.0 2 EXT USB 2.0 3 INT USB 2.0
COM	1 EXT RS232/422/485 1 INT RS232/422/485 4 INT RS232 (COM1~4: 5V/12V TTL)	2* COM (COM2 support 5V/12V TTL)	1 INT RS232/422/485 8 INT RS232	1 EXT RS232 1 EXT RS232/422/485 8 INT RS232
RJ11	No	No	No	No
Parallel	No	No	No	No
HDMI	1 EXT	2 EXT + 2 INT	1 EXT	1 EXT
VGA	1 EXT (Selectable w/ LVDS)	No	1 EXT	1 EXT
DVI	1 EXT	No	1 EXT DVI-D	1 EXT DVI-D
DisplayPort	1 EXT	2 EXT	1 EXT	No
LVDS / eDP	1* 24 Bit Dual CH LVDS (Optional, selectable w/VGA)	1* eDP	No	No
Multiple Display	Triple	Up tp 6 dispays	Dual	Dual
PS/2	1 EXT	No	1 INT	1 INT
Expansion Slot	2* PCIe x 16 2* PCIe x 4	1* PCIe x 1 1* MXM Card Slot	2* PCI 1* PCIe x 1 1* PCIe x 16	2* PCI 1* PCIe x 4 1* PCIe x 16
TPM	TPM2.0 onboard option	No	TPM1.2/2.0 Header	TPM2.0 onboard option
SMBus	Yes	Yes	Yes	Yes
GPIO	Yes	Yes	Yes	Yes
Power	24pin ATX + 8pin 12V	12~36V DC-in Jack	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V
AT Mode	Yes	Yes	Yes	Yes
Page	99	100	101	102

Form Factor	Micro ATX	ATX		
Category	6th Generation	8th Generation	6th Generation	6th Generation
Model	JNMF691-H110	JNAF791-Q370/C246	JNC9L-AH110	JNC7L-AH110
Dimension	244 x 244 mm	305 x 244 mm	305 x 220 mm	305 x 244 mm
Chipset	Intel H110	Intel Q370 /C246	Intel H110	Intel H110
Processor	LGA1151 socket 7th/6th Gen processor	LGA1151 socket 8th/9th processor	LGA1151 socket 7th/6th Gen processor	LGA1151 socket 7th/6th Gen processor
Memory	2* DDR4 2133MHz up to 32GB	4* DDR4 2400MHz up to 128GB (with ECC for C246)	2* DDR4 2133MHz up to 32GB	2* DDR4 2133MHz up to 32GB
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	Intel GFX
SATA	3 SATAIII	5 SATAIII Support RAID 0,1, 5,10	4 SATAIII (SATA4 Co-lay M.2)	3 SATAIII
eMMC	No	No	No	No
mSATA	No	No	No	No
Mini PCIe	1 Full Size (USB signal only)	No	No	1 Full Size
M.2	1 (M Key 2242/2260 /2280/22110, SATA interface)	1 (M-Key 2242/2260/2280/22110, SATA/PCIe x4) support NVMe 1 (E-key 2230)	1 (M-Key 2242/2280)	1 (M-Key 2242/2280)
SIM Card Holder	1 INT	No	No	1 INT
Audio	Realtek ALC662	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD
Ethernet	2* Realtek RTL8111G GbE	1* Intel i219LM GbE 1* Intel i211AT GbE (Q370) 1* Intel i210AT GbE (C246)	2* Intel GbE(i219LM, i211AT)	2* Intel GbE(i219LM, i211AT)
USB	4 EXT USB 3.0 2 EXT USB 2.0 3 INT USB 2.0 (1 is vertical connector)	4 EXT USB 3.1 (Gen 2) 2 EXT USB 2.0 2 INT USB3.1 (Gen 2) 4 INT USB 2.0	4 EXT USB 3.0 2 EXT USB 2.0 3 INT USB 2.0	6 EXT USB 3.0 2 INT USB 3.0 5 INT USB 2.0
COM	1 EXT RS232 1 EXT RS232/422/485 8 INT RS232	1 EXT RS232/422/485 1 INT RS232/422/485 8 INT RS232	1 EXT RS232/422/485 1 EXT RS232 4 INT RS232(COM1/3/4 Support 5V/12V)	2 EXT RS232/422/485 8 INT RS232
RJ11	No	No	No	No
Parallel	No	No	1 INT	1 INT
HDMI	1 EXT	1 EXT	1 EXT	1 EXT
VGA	1 EXT	1 EXT	2 EXT	1 EXT
DVI	1 EXT DVI-D	1 EXT DVI-D	No	No
DisplayPort	No	1 EXT	No	No
LVDS / eDP	No	No	No	No
Multiple Display	Dual	Triple	Dual	Dual
PS/2	1 INT	1 INT	1 EXT	1 EXT
Expansion Slot	2* PCI 1* PCIe x 1 1* PCIe x 16	2* PCI 1* PCIe x 1 1* PCIe x 4 2* PCIe x 16	4* PCI 1* PCIe x 1 1* PCIe x 4 1* PCIe x 16	5* PCI 1* PCIe x 4 1* PCIe x 16
TPM	TPM1.2/2.0 Header	TPM2.0 onboard option	No	TPM1.2/2.0 Header
SMBus	Yes	Yes	No	Yes
GPIO	Yes	Yes	Yes	Yes
Power	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V
AT Mode	Yes	Yes	Yes	Yes
Page	103	104	105	106

Form Factor	ATX			Expansion Modules
Category	6th Generation	6th Generation	4th Generation	Expansion Modules
Model	JNC7L-AH110-6C	JNAF591-Q170	JNC7I-AH81	
Dimension	305 x 244 mm	305 x 244 mm	305 x 240 mm	
Chipset	Intel H110	Intel Q170	Intel H81	
Processor	LGA1151 socket 7th/6th Gen processor	LGA1151 socket 7th/6th Gen processor	Intel® LGA1150 Socket Core i7/i5/i3/Pentium Processor	
Memory	2* DDR4 2133MHz up to 32GB	4* DDR4 2133MHz up to 64GB	2* DDR3L 1600MHz up to 16GB	
Integrated Graphics	Intel GFX	Intel GFX	Intel GFX	
SATA	3 SATAIII	4 SATAIII Support RAID 0,1, 5,10	2 SATAIII 2 SATAII	
eMMC	No	No	No	
mSATA	No	No	1 Full size (Shared SATA6)	
Mini PCIe	1 Full Size	1 Full Size	1 Full Size	
M.2	1 (M-Key 2242/2280)	1 (M-Key 2242/2260/2280/22110, PCIe x4/SATA interface)	No	
SIM Card Holder	1 INT	No	1 INT	
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662	
Ethernet	2* Intel GbE(i219LM, i211AT)	2* Intel GbE (i219LM, i211AT)	2* Realtek RTL8111G GbE	
USB	6 EXT USB 3.0 2 INT USB 3.0 5 INT USB 2.0	6 EXT USB 3.0 4 INT USB 2.0	4 EXT USB 3.0 2 EXT USB 2.0 5 INT USB 2.0	
COM	2 EXT RS232/422/485 4 INT RS232	1 EXT RS232/422/485 1 INT RS232/422/485 8 INT RS232(5V/12V)	2 EXT RS232/422/485 4 INT RS232 (COM 3/4 Support 5V/12V)	
RJ11	No	No	No	
Parallel	1 INT	No	1 INT	
HDMI	1 EXT	1 EXT	2 EXT	
VGA	1 EXT	No	1 EXT	
DVI	No	1 EXT DVI-D	No	
DisplayPort	No	1 EXT	No	
LVDS / eDP	No	No	No	
Multiple Display	Dual	Triple	Dual	
PS/2	1 EXT	1 INT	1 EXT	
Expansion Slot	5* PCI 1* PCIe x 4 1* PCIe x 16	3* PCIe x 1 1* PCIe x 4 1* PCIe x 16 1* PCIe x 8 (share with PCIe x16 slot)	5* PCI 1* PCIe x 1 1* PCIe x 16	
TPM	TPM1.2/2.0 Header	TPM1.2/2.0 Header	TPM1.2/2.0 Header	
SMBus	Yes	Yes	Yes	
GPIO	Yes	Yes	Yes	
Power	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	
AT Mode	Yes	Yes	Yes	
Page	106	107	108	109 ~ 112

JNC8J-I3455 Series

Features

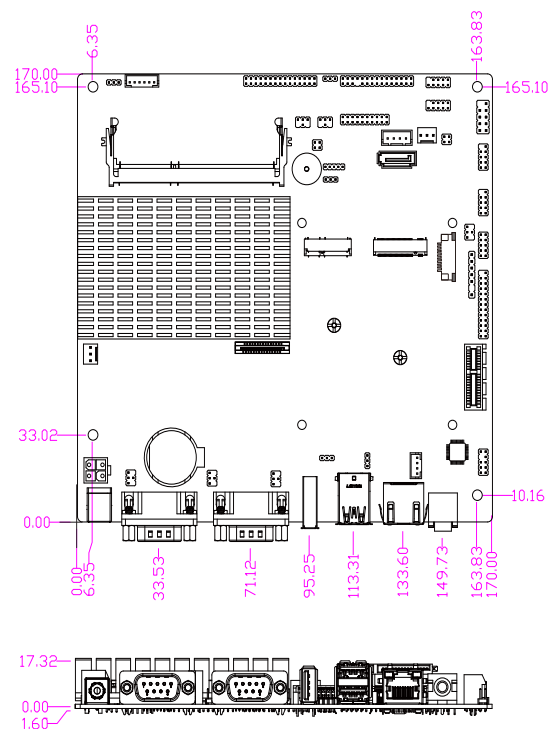


- Support Apollo lake J3455 SoC (Co-lay N3350)
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- HDMI 1.4b + LVDS + eDP (default)
- **JND8J-I3455D: Support onboard 32G eMMC**
- 1* M.2 E-key, 1* M.2 M-key
- 2* USB3.0, 5* USB2.0, 4* COM
- 12V DC-IN
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake J3455	Rear I/O Port	1* Line-out, 2* COM, 2* USB3.0,
Memory	1* DDR3L 1866MHz SO-DIMM up to 8GB		1* USB2.0, 1* GbE, 1* 12V DCIN
Ethernet	1* Realtek RTL8111G GbE		
Graphic	1* HDMI 1.4b up to 3840x2160@30Hz (Co-lay eDP3)	Internal I/O Port	4* USB2.0, 1* PS/2, 1* LVDS (option w/eDP3), 1* HDMI (option w/eDP2),
	1* Dual CH LVDS up to 1920x1200@60Hz (Co-lay eDP2)		1* eDP, GPIO, 1* RS232 (5/12V),
	1* eDP up to 4096x2160@60Hz		1* RS232/422/485, 1* Audio Header, 1* 3W speaker
Storage	1* SATAIII, 1* M.2 M-key (2242), JNC8J-I3455D: Onboard 32G eMMC	WDT	0~255 Sec./Min. programmable
		Power	12V DC-in
Expansion Slot	1* PCIe x1, 1* M.2 E-key (2230)	Temperature	Operating: -10~60°C w/0.7m/s air flow Storage: -20~85°C
		Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF894 Series

Features

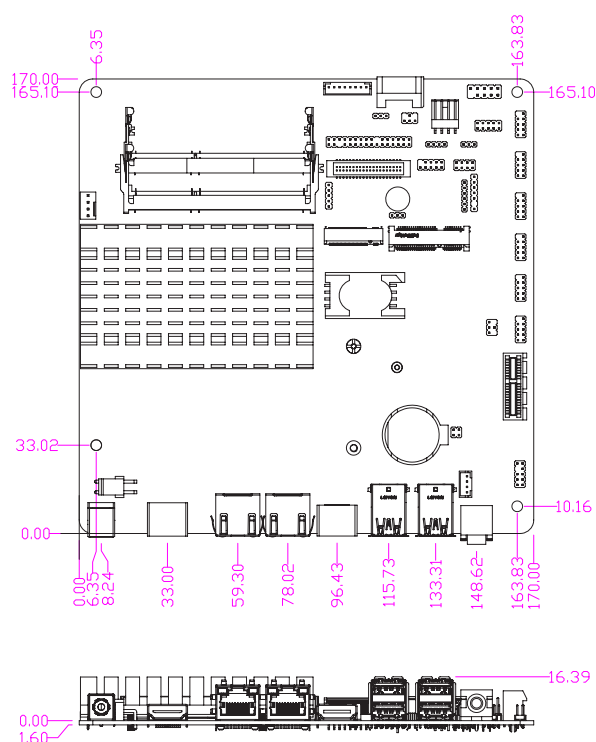


- Support Intel Quad Core J3455 Processor
- 2* DDR3L 1866MHz SO-DIMM up to 8GB
- Onboard 32GB eMMC (JNF894G32-3455 only)
- HDMI1.4b / LVDS / eDP, supports 3 displays
- 1* Mini PCIe, 1* M.2 M-key
- 4* USB 3.0, 3* USB 2.0, 6* COM
- 9-36V DC-IN
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake J3455	Rear I/O Port	2* HDMI (one option with DP),
Memory	2* DDR3L 1866MHz SO-DIMM up to 8GB		2* GbE, 4* USB3.0, Line-out, 1* DC-in
Ethernet	2 * Intel I211-AT GbE		
Graphic	2* HDMI1.4b up to 3840x2160@30Hz	Internal I/O Port	3* USB2.0, 1* LVDS, 1* eDP, 6* COM
	1* DP up to 4096x2160@60Hz (option HDMI)		(COM1 support RS232/422/485 W/power),
	1* Dual CH LVDS up to 1920x1200@60Hz		1* PS/2, 1* GPIO, 1* onboard TPM (option)
	(selectable with eDP)		
	1* eDP up to 4096x2160@60Hz	WDT	0~255 Sec./Min. programmable
Storage	1* SATAIII,	Power	9-36V DC-in
	1* M.2 M-key (2242/2280),	Temperature	Operating: 0~60°C w/0.7 m/s air flow
	1* eMMC 32GB (JNF894G32-3455 only)		Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF695HV-3455

Features

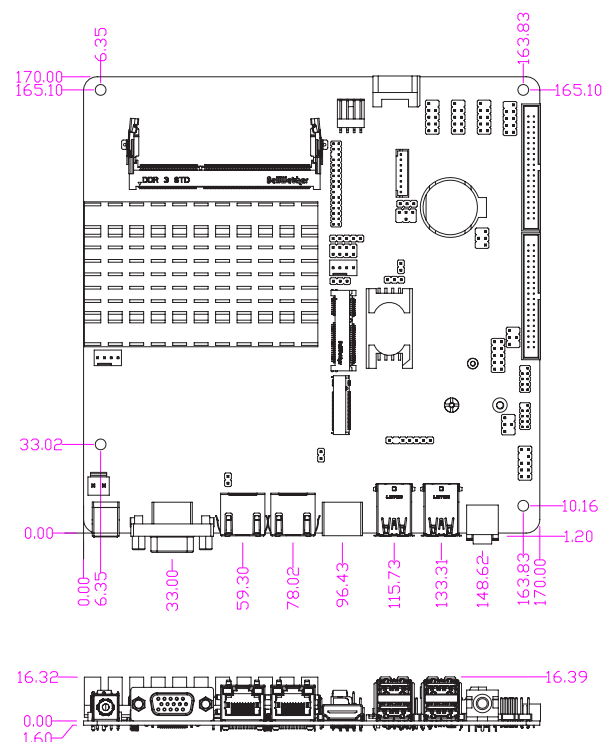


- Support Intel Quad Core J3455 Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- HDMI1.4b / VGA / LVDS / eDP
- 1* Mini PCIe, 1* M.2 M-key
- 4* USB3.0, 6* USB2.0, 10* COM
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake J3455	Rear I/O Port	1* HDMI, 1* VGA, 2* GbE, 4* USB3.0, Line-out, 1* DC-in
Memory	1* DDR3L 1866MHz SO-DIMM up to 8GB		
Ethernet	2* Realtek RTL8111H GbE		
Graphic	1* HDMI1.4b up to 3840x2160@30Hz 1* VGA up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz 1* eDP up to 4096x2160@60Hz	Internal I/O Port	6* USB2.0, 1* LVDS, 1* eDP, 10* COM (COM1 Support RS232/422/485), 1* PS/2, 1* GPIO, 1* SIM holder, 1* onboard TPM (option)
Storage	1* SATAIII, 1* M.2 M-key (2242/2260)	WDT	0~255 Sec./Min. programmable
		Power	12V DC-in
Expansion Slot	1* Mini PCIe (full size)	Temperature	Operating: 0~60°C w/ 0.7 m/s air flow Storage: -20~85°C
		Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF695L-3455

Features

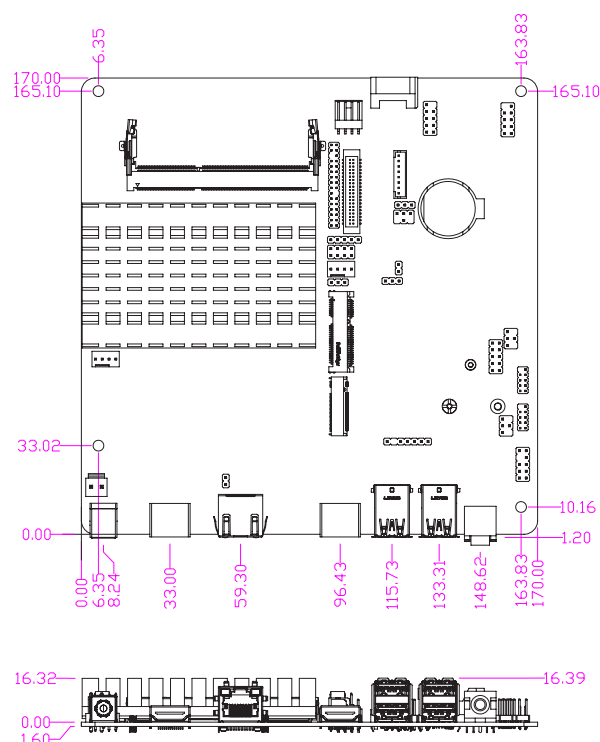


- Support Intel Apollo Lake Quad Core J3455 Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- HDMI1.4b / LVDS / eDP
- 1* Mini PCIe, 1* M.2 M-key
- 4* USB 3.0, 2* USB 2.0, 2* COM
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake J3455	Rear I/O Port	2* HDMI, 1* GbE, 4* USB3.0, Line-out, 1* DC-in
Memory	1* DDR3L 1866MHz SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111H GbE		
Graphic	2* HDMI1.4b up to 3840x2160@30Hz 1* Dual CH LVDS up to 1920x1200@60Hz 1* eDP up to 4096x2160@60Hz	Internal I/O Port	2* USB2.0, 1* LVDS, 1* eDP, 2* COM, 1* PS/2, 1* GPIO, 1* onboard TPM (option)
Storage	1* SATAIII, 1* M.2 M-key (2242/2260)	WDT	0~255 Sec./Min. programmable
Expansion Slot	1* Mini PCIe (full size)	Power	12V DC-in
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
		Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF694 Series

Features

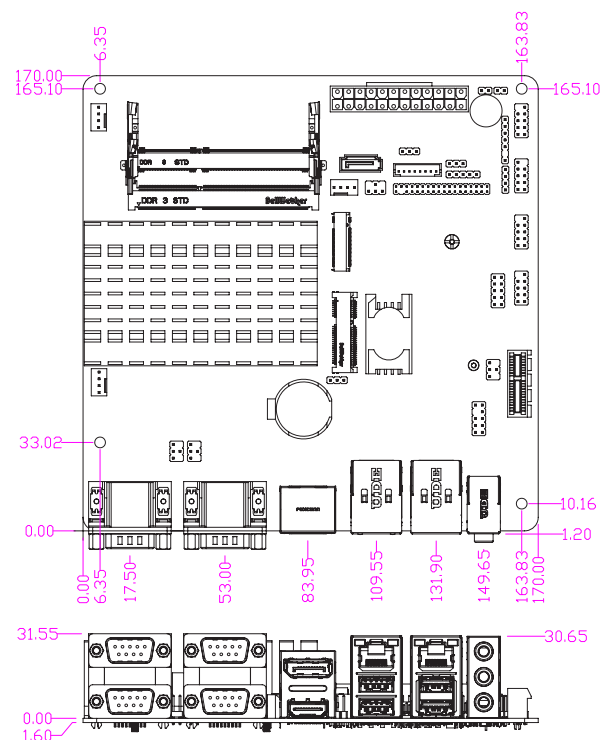


- Support Intel Quad Core & Dual Core N4200/ N3350/J3455 processor
- 2* DDR3L 1866MHz SO-DIMM up to 8GB
- DP1.2 / HDMI1.4b / LVDS
- 1* PCIe x1, 1* Mini PCIe
- 4* USB3.0, 3* USB2.0, 6* COM
- Slim ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake N4200/N3350/J3455	Rear I/O Port	1* HDMI, 1* DP, 2* GbE, 4* USB3.0, 4* COM (COM1: S232/422/ 485), Line-in, Line-out, MIC
Memory	2* DDR3L 1866MHz SO-DIMM up to 8GB	Internal I/O Port	3* USB2.0, 1* PS/2, 1* LVDS, 2* COM, 1* GPIO, 1* SIM card holder, 1* onboard TPM (option)
Ethernet	2* Realtek RTL8111H GbE	WDT	0~255 Sec./Min. programmable
Graphic	1* HDMI1.4b up to 3840x2160@30Hz 1* DP1.2 up to 4096x2160@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Power	24pin ATX
Storage	1* SATAIII, 1* M.2 M-key (2242/2260)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF694L Series

Features

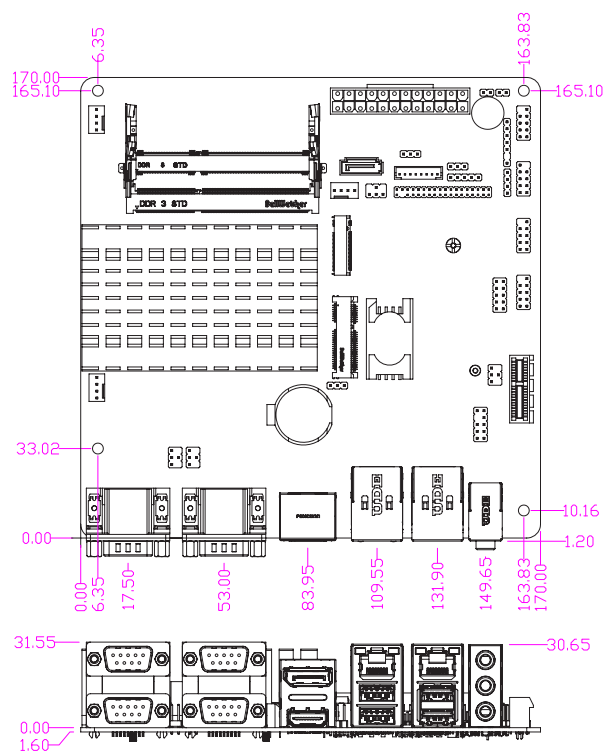


- Support Intel Quad & Dual Core N4200/ N3350/J3455 Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- DP1.2 / HDMI1.4b / LVDS
- 1* PCIe x1 & 1* Mini PCIe
- 4* USB3.0, 3* USB2.0, 4* COM
- Slim ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake N4200/N3350/J3455	Rear I/O Port	1* HDMI, 1* DP, 1* GbE, 4* USB3.0, 4* COM, Line-in, Line-out, MIC
Memory	1* DDR3L 1866MHz SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111H GbE		
Graphic	1* HDMI1.4b up to 3840x2160@30Hz 1* DP1.2 up to 4096x2160@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	3* USB2.0, 1* PS/2, 1* LVDS, 1* GPIO, 1* onboard TPM (option)
Storage	1* SATAIII, 1* M.2 M-key (2242/2260)	WDT	0~255 Sec./Min. programmable
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Power	24pin ATX
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
		Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF692G6-345

Features

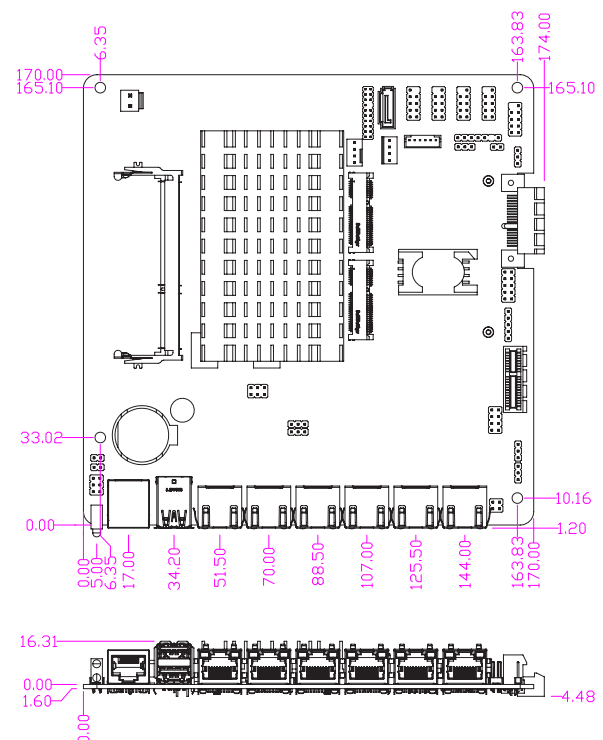


- Support Intel Quad & Dual Core J3455 Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- 1* PCIe x1, 1* Mini PCIe
- 2* USB3.0, 2* USB2.0, 4* COM (1* support RJ45), 6* GbE
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake J3455	Rear I/O Port	6* GbE, 2* USB3.0, 1* COM (RJ45 Type), 1* PWR LED, 1* HDD LED
Memory	1* DDR3L 1866MHz SO-DIMM up to 8GB		
Ethernet	6* Intel i211AT GbE		
Graphic	1* HDMI1.4b Up to 3840x2160@30Hz	Internal I/O Port	1* HDMI, 2* USB2.0, 3* COM (COM2: RS232/422/485), 1* PS/2, 1* GPIO, 1* SIM holder, 12V 2PIN header
		WDT	0~255 Sec./Min. Programmable
Storage	1* SATAIII, 1* mSATA (full size)	Power	12V DC-in 2PIN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF692G6-345B1

Features

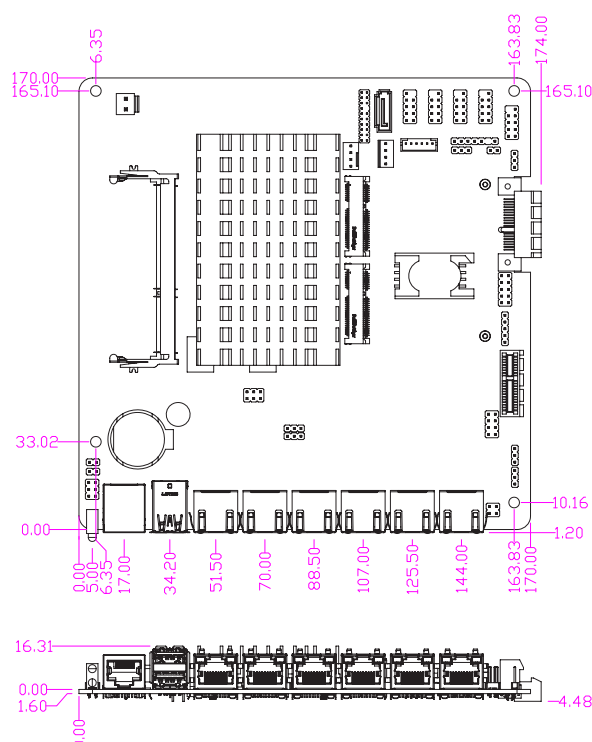


- Support Intel Quad & Dual Core J3455 Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- 6* GbE (LAN3/LAN4 support LAN ByPass)
- 1* PCIe x1 & 1* Mini PCIe
- 2* USB3.0, 2* USB2.0, 4* COM (1* support RJ45)
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake J3455	Rear I/O Port	6* GbE (LAN3/LAN4: LAN ByPass), 2* USB3.0, 1* COM (RJ45 Type), 1* PWR
Memory	1* DDR3L 1866MHz SO-DIMM up to 8GB		LED, 1* HDD LED
Ethernet	6* Intel i211AT GbE, 2 ports support LAN ByPass	Internal I/O Port	1* HDMI, 2* USB2.0, 3* COM (COM2: RS232/422/485), 1* GPIO, 1* SIM holder, 12V 2-PIN header
Graphic	1* HDMI1.4b up to 3840x2160@30Hz	WDT	0~255 Sec./Min. Programmable
Storage	1* SATAIII, 1* mSATA (full size)	Power	12V DC-in 2PIN
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Temperature	Operating 0~60°C w/0.7 m/s air flow Storage -20~85°C
		Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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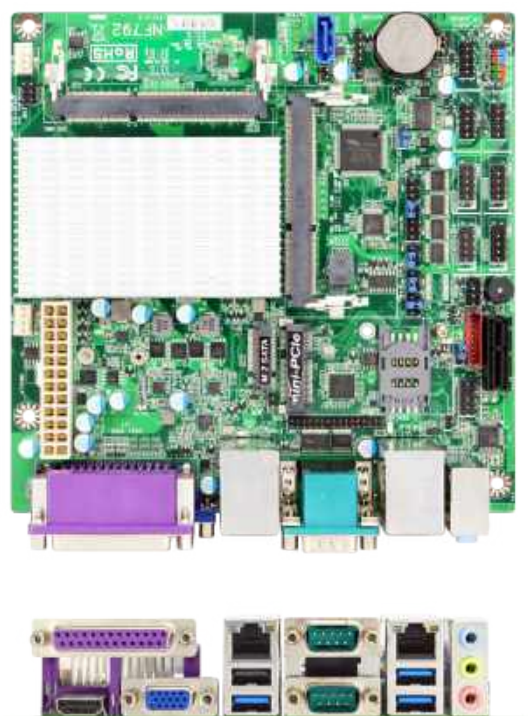
JNF792-3160

Features

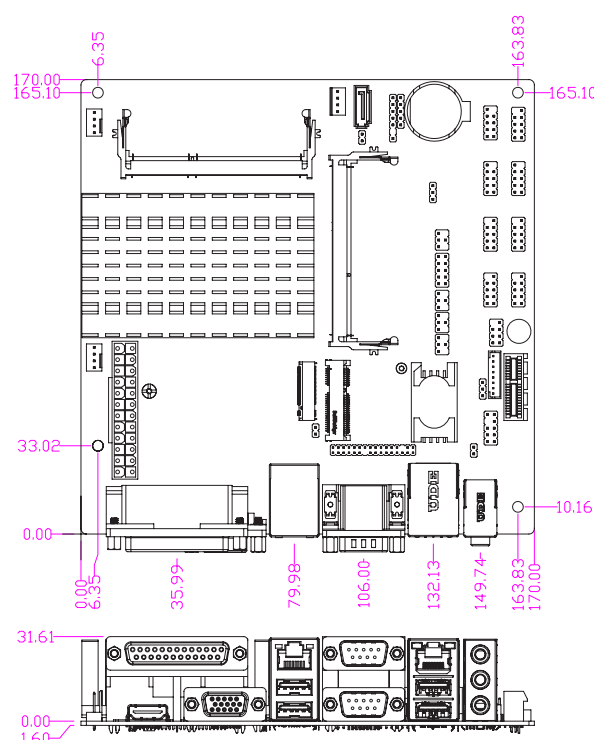


- Support Intel Quad Core N3160 processor
- 2* DDR3L 1600MHz SO-DIMM up to 8GB
- HDMI / VGA / LVDS
- 1* PCIe x1, 1* Mini PCIe, 1* SIM card holder
- 3* USB3.0, 7* USB2.0, 6* COM
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Braswell N3160	Rear I/O Port	1* VGA, 1* HDMI, 2* GbE, 3* USB3.0, 1* USB2.0, 2* COM (COM1: RS232/422/485), 1* Parallel, Line-in, Line-out, MIC
Memory	2* DDR3L 1600MHz SO-DIMM up to 8GB	Internal I/O Port	6* USB2.0, 1* LVDS, 4* COM, 1* GPIO, 1* Audio header, 1* SIM card holder, 1* onboard TPM (option), 1* PS/2
Ethernet	2* Realtek RTL8111H GbE	WDT	0~255 Sec./Min. programmable
Graphic	1* HDMI1.4b up to 3840x2160@30Hz 1* VGA up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Power	24pin ATX
Storage	1* SATAIII, 1* M.2 (M-key, 2242/2260)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size), 1* SIM card holder	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF792I-3160

Features

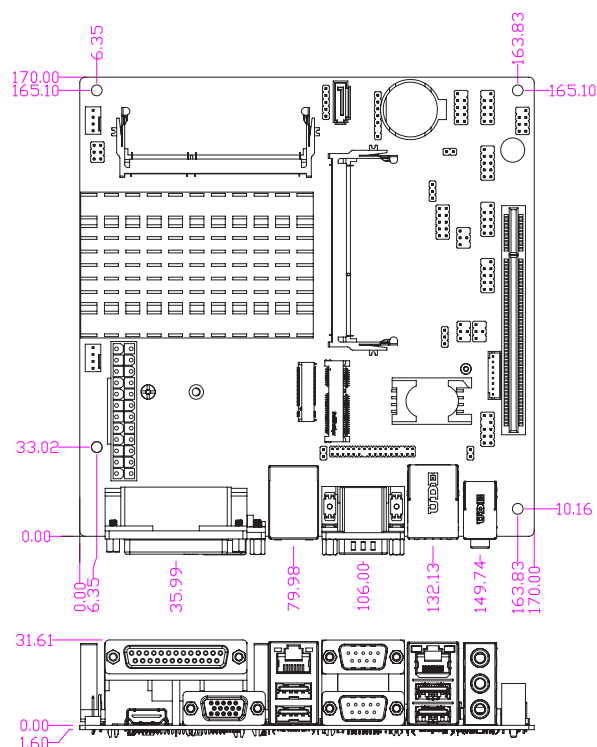


- Support Intel Quad Core N3160 processor
- 2* DDR3L 1600MHz SO-DIMM up to 8GB
- HDMI / VGA / LVDS
- 1* PCI, 1* Mini PCIe, 1* SIM card holder
- 3* USB3.0, 5* USB2.0, 4* COM
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Braswell N3160	Rear I/O Port	1* VGA, 1* HDMI, 2* GbE, 3* USB3.0, 1* USB2.0, 2* COM (COM1: RS232/422/485), 1* Parallel, Line-in, Line-out, MIC
Memory	2* DDR3L 1600MHz SO-DIMM up to 8GB	Internal I/O Port	4* USB2.0, 1* LVDS, 2* COM, 1* GPIO, 1* Audio header, 1* SIM card holder, 1* onboard TPM (option), 1* PS/2
Ethernet	2* Intel i211AT GbE	WDT	0~255 Sec./Min. programmable
Graphic	1* HDMI1.4b up to 3840x2160@30Hz 1* VGA up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Power	24pin ATX
Storage	1* SATAIII, 1* M.2 (M-key, 2242/2260)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCI, 1* Mini PCIe (full size), 1* SIM card holder	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF596-3160

Features

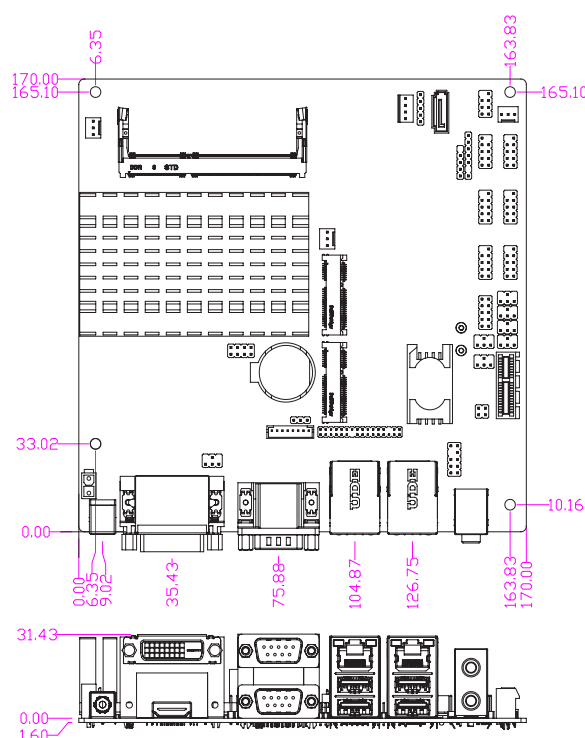


- Support Intel Quad Core N3160 processor
- 1* DDR3L 1600MHz SO-DIMM up to 8GB
- HDMI / DVI-D / LVDS, support triple displays
- 1* PCIe x1, 1* Mini PCIe
- 4* USB3.0, 3* USB2.0, 6* COM
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Braswell N3160	Rear I/O Port	1* HDMI, 1* DVI-D, 2* RJ45, 4* USB3.0,
Memory	1* DDR3L 1600MHz SO-DIMM up to 8GB		2* COM (COM1: RS232/422/485), Line-out,
			MIC, 1* DC-in
Ethernet	2* Realtek RTL8111G GbE	Internal I/O Port	3* USB2.0, 1* LVDS, 4* COM, 1* GPIO,
Graphic	1* HDMI1.4b up to 3840x2160@30Hz		1* Audio header, 1* SIM card holder
	1* DVI-D up to 1920x1080@60Hz		
	1* Dual CH LVDS up to 1920x1080@60Hz		
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAIII, 1* mSATA (full size)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF591-3160

Features

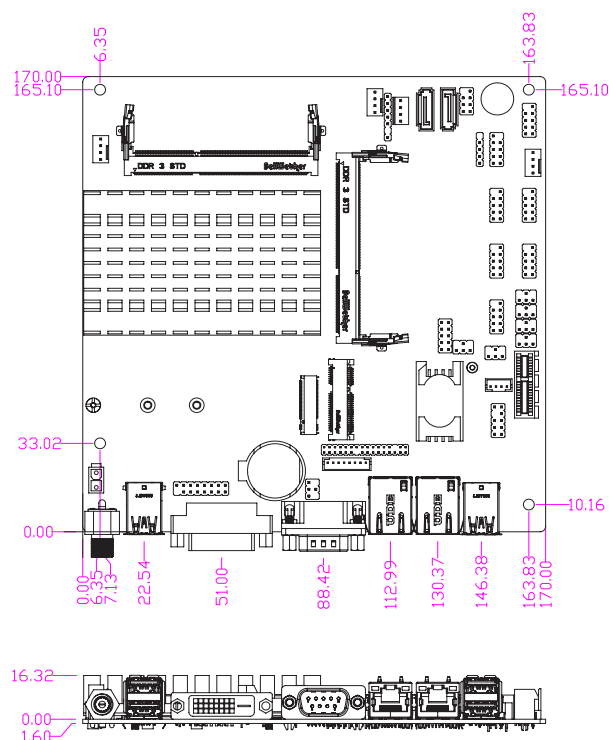


- Support Intel Quad Core N3160 processor
- 2* DDR3L 1600MHz SO-DIMM up to 8GB
- VGA / DVI-D / LVDS, support triple displays
- 1* PCIe x1, 1* Mini PCIe
- 4* USB3.0, 3* USB2.0, 6* COM
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Braswell N3160	Rear I/O Port	1* DVI-D, 2* RJ45, 4* USB3.0,
Memory	2* DDR3L 1600MHz SO-DIMM up to 8GB		1* RS232/422/485, 1* Lockable DC-in
Ethernet	2* Realtek RTL8111G GbE		
Graphic	1* VGA up to 1920x1200@60Hz	Internal I/O Port	1* VGA, 3* USB2.0, 1* LVDS, 5* COM,
	1* DVI-D up to 1920x1200@60Hz		1* GPIO, 1* Audio Header, 1* 3W speaker,
	1* Dual CH LVDS up to 1920x1080@60Hz		1* SIM card holder
Storage	2* SATAIII (1 share w/M.2), 1* M.2 M-key (2242/2260/2280)	WDT	0~255 Sec./Min. programmable
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
		Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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MI97 Series

Features

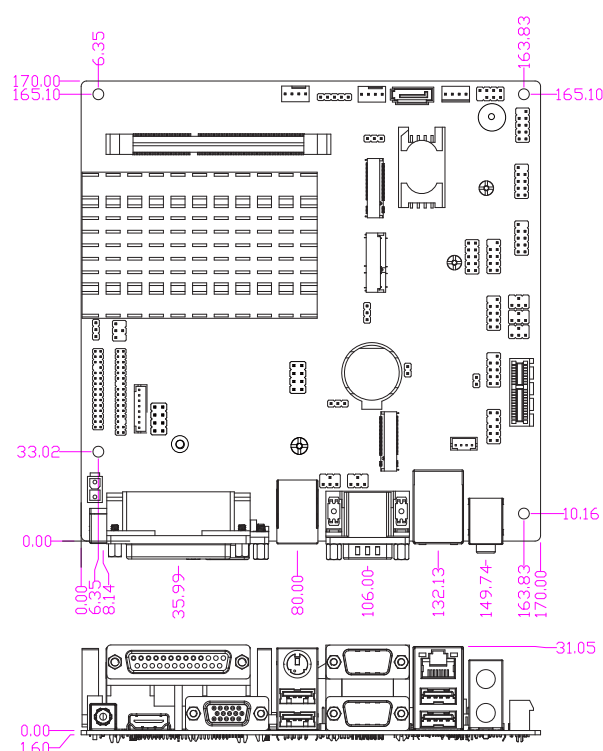


- Support Intel Bay Trail N2930 SoC Processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- 1* HDMI, 1* VGA, 1* LVDS (co-layout w/eDP)
- 5* COM (COM1: RS232/422/485), 1* USB3.0, 7* USB2.0, 1* GbE
- 1* M.2 M-key 2242/2280, 1* M.2 E-key 2230, 1* M.2 B-key 3042 W/SIM card holder
- 1* SATAII , 1* PCIe x1
- 12V DC-in PWR
- Support TPM2.0 (MI97-32)

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930 SoC	Rear I/O Port	1* USB3.0, 3* USB2.0, 1* HDMI, 1* VGA, 1* RJ45, 2* COM (COM1: RS232/422/485), 1* Parallel, Line-out, MIC, 1* DC-in, 1* PS/2
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB	Internal I/O Port	4* USB2.0, 3* COM, 1* LVDS (co-layout with eDP), 1* GPIO, 1* Audio Header, TPM2.0 onboard (MI97-32)
Ethernet	1* Intel i211AT GbE	WDT	256 segments (10sec ~ 255min)
Graphic	1* LVDS up to 1920×1200@60Hz 1* eDP up to 2560×1600@60Hz (Co-lay with LVDS) 1* VGA up to 1920×1200@60Hz 1* HDMI up to 1920×1200@60Hz	Power	12V DC IN
Storage	1* SATAII, 1* M.2 (M-key, 2242. SATA interface)	Temperature	Operating: -20~70°C w/0.7 m/s air flow Storage: -40~70°C
Expansion Slot	1* PCIe x1, 1* M.2 E-key 2230 , 1* M.2 B-key 3042 w/SIM card holder	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF9T-2930

Features

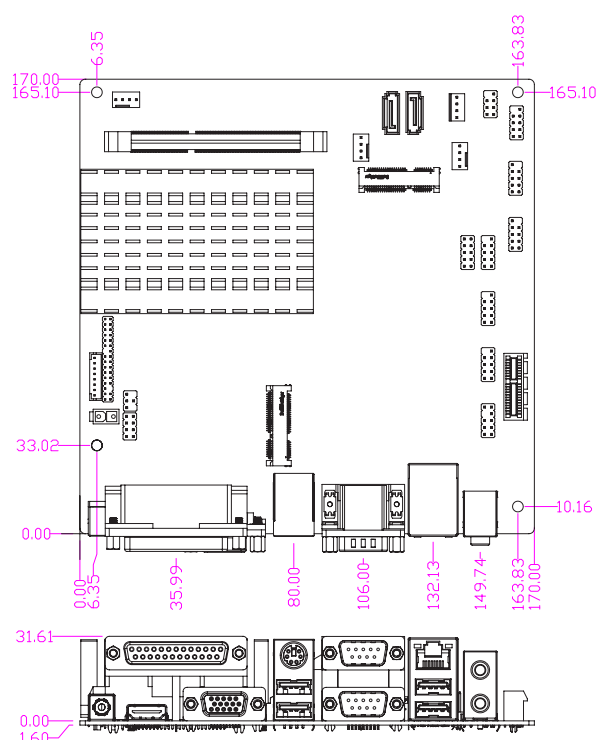


- Support Intel Quad Core N2930 processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA / HDMI / LVDS
- 1* PCIe x1, 1* Mini PCIe
- 1* USB3.0, 8* USB2.0, 5* COM
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930	Rear I/O Port	1* VGA, 1* HDMI, 1* RJ45, 3* USB2.0, 1* USB3.0, 1* PS/2, 1* Parallel, 2* COM (COM1: RS232/422/485), Line-out, MIC, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB	Internal I/O Port	5* USB2.0, 1* LVDS, 3* COM, 1* GPIO, 1* Audio header
Ethernet	1* Intel 82583V GbE	WDT	0~255 Sec./Min. programmable
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Power	12V DC IN
Storage	2* SATAII, 1* mSATA (full size, shared SATA2)	Temperature	Operating: -20~70°C w/0.7 m/s air flow Storage: -40~70°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (half size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF9U-2930

Features

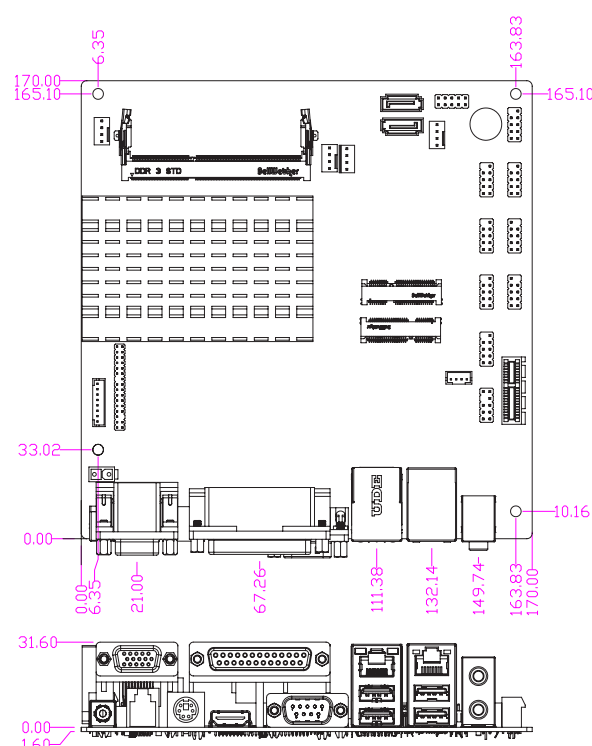


- Support Intel Quad Core N2930 processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA / HDMI / LVDS
- 1* PCIe x1, 1* Mini PCIe
- 1* USB3.0, 7* USB2.0, 6* COM
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930	Rear I/O Port	1* VGA, 1* HDMI, 2* RJ45, 1* USB3.0, 3* USB2.0, 1* RS232/422/485, Line-out, MIC, 1* PS/2, 1* Parallel, 1* RJ11, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB	Internal I/O Port	4* USB2.0, 1* LVDS, 5* COM, 1* GPIO, 1* Audio Header
Ethernet	2* Realtek RTL8111G GbE	WDT	0~255 Sec./Min. programmable
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200 @60Hz	Power	9~24V DC IN
Storage	2* SATAII, 1* mSATA (full size)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (half size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF9N-2930

Features

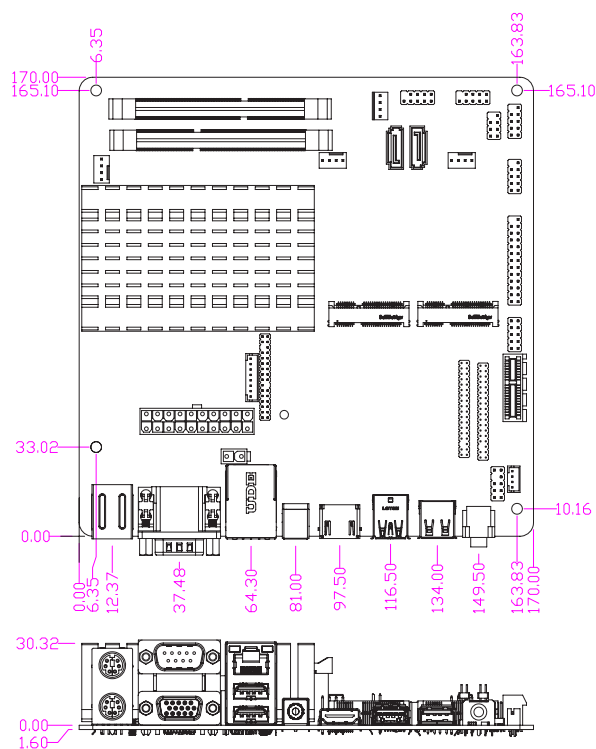


- Support Intel Quad Core N2930 processor
- 2* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA / HDMI / LVDS, support dual displays
- 1* PCIe x1 and 1* Mini PCIe
- 1* USB3.0, 7* USB2.0, 2* COM
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930	Rear I/O Port	1* VGA, 1* HDMI, 1* RJ45, 1* USB3.0, 3* USB2.0, 1* COM, Line-out, 1* PS/2, 1* DC-in
Memory	2* DDR3L 1333MHz SO-DIMM up to 8GB	Internal I/O Port	4* USB2.0, 1* LVDS, 1* COM, 1* GPIO, 1* Parallel, 1* Audio header
Ethernet	1* Intel i211AT GbE	WDT	0~255 Sec./Min. programmable
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200 @60Hz	Power	12V DC IN
Storage	2* SATAII, 1* mSATA (full size, shared SATA2)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF9M-2930

Features

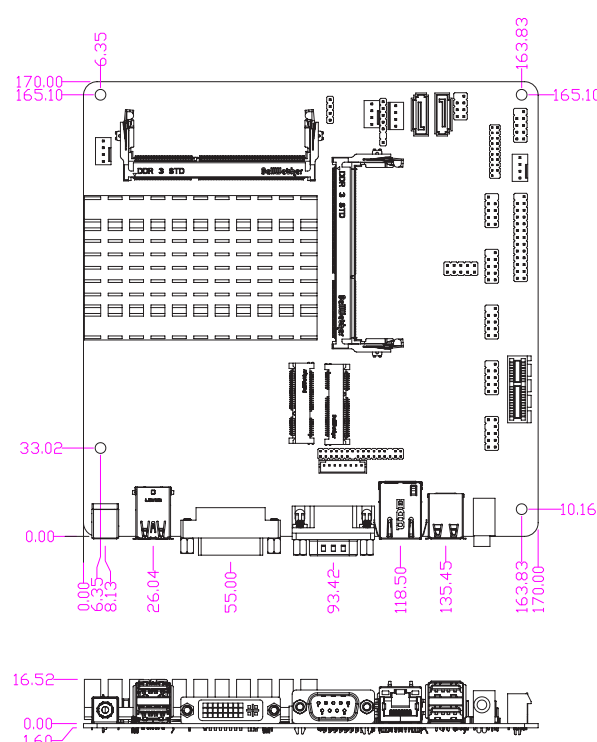


- Support Intel Quad Core N2930 processor
- 2* DDR3L 1333MHz SO-DIMM up to 8GB
- DVI-I / LVDS
- 1* PCIe x1, 1* Mini PCIe
- 3* USB3.0, 5* USB2.0, 4* COM
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930	Rear I/O Port	1* DVI-I, 1* RJ45, 1* USB3.0, 3* USB2.0, 1* RS232/422/485, 1* Line-out, 1* DC-in
Memory	2* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111G GbE		
Graphic	1* DVI-I up to 1920x1080@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	2* USB3.0, 2* USB2.0, 1* LVDS, 3* COM, 1* GPIO, 1* Parallel, 1* PS/2
		WDT	0~255 Sec./Min. programmable
Storage	2* SATAII, 1* mSATA (full size, shared SATA2)	Power	9~36V DC IN
		Temperature	Operating: -20~70°C w/0.7 m/s air flow Storage: -40~70°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF9HG-2930

Features

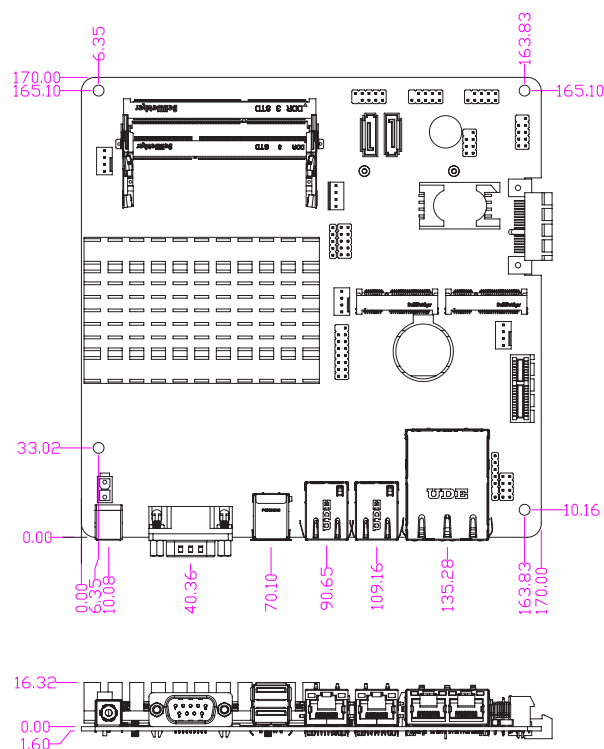


- Support Intel Quad Core N2930 processor
- 2* DDR3L 1333MHz SO-DIMM up to 8GB
- 2* PCIe x1, 1* Mini PCIe
- 1* USB3.0, 5* USB2.0, 2* COM, 4* GbE
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930	Rear I/O Port	4* RJ45, 1* USB3.0, 1* USB2.0, 1* COM, 1* DC-in
Memory	2* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	4* Intel i211AT GbE		
Graphic	1* VGA up to 1920x1200@60Hz	Internal I/O Port	1* VGA, 4* USB2.0, 1* COM, 1* GPIO, 1* SIM card holder, 1* onboard TPM (option), 1* PS/2
		WDT	0~255 Sec./Min. programmable
Storage	2* SATAII, 1* mSATA (full size, shared)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	2* PCIe x1, 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
www.jetwayipc.com

JNF9HB-2930

Features

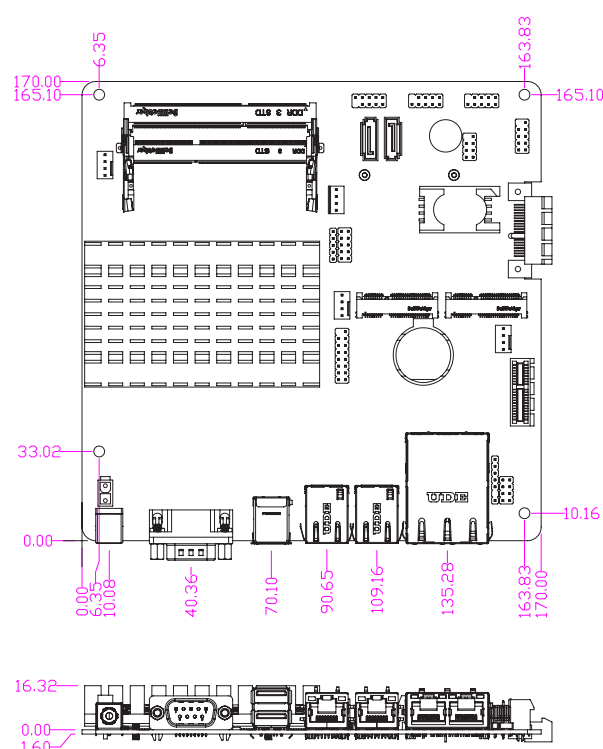


- Support Intel Quad Core N2930 processor
- 2* DDR3L 1333MHz SO-DIMM up to 8GB
- 4* GbE (1 pair support ByPass)
- Support 1* PCIe x1 (Vertical or at side option), 1* Mini PCIe
- 1* USB3.0, 5* USB2.0, 2* COM
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930	Rear I/O Port	4* RJ45 (1 pair support ByPass), 1* USB3.0, 1* USB2.0, 1* COM, 1* DC-in
Memory	2* DDR3L 1333MHz SO-DIMM up to 8GB	Internal I/O Port	1* VGA, 4* USB2.0, 1* COM, 1* GPIO, 1* PS/2, 1* onboard TPM (option)
Ethernet	4* Intel i211AT GbE, Two for ByPass		
Graphic	1* VGA up to 1920x1200@60Hz		
			0~255 Sec./Min. programmable
		WDT	12V DC IN
Storage	2* SATAII, 1* mSATA (full size, shared)	Power	Operating: 0~60°C w/0.7 m/s air flow
		Temperature	Storage: -20~85°C
Expansion Slot	1* PCIe x1 (Vertical or at side option), 1* Mini PCIe (full size), 1* SIM card holder	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNC7K-I1900

Features

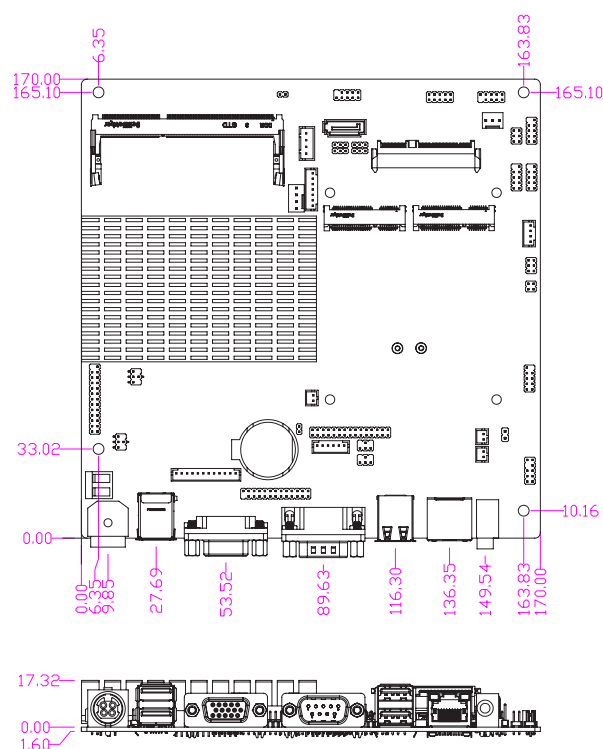


- Support Intel Bay Trail-D J1900 processor (Co-lay N2930)
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA / eDP / LVDS
- 1* Mini PCIe, 1* mSATA
- 1* USB3.0, 8* USB2.0, 4* COM
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail-D J1900	Rear I/O Port	1* VGA, 1* RJ45, 1* USB3.0, Line-out, 3* USB2.0, 1* COM (5/12V), 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111G GbE		
Graphic	1* VGA up to 2560x1600@60Hz 1* eDP up to 2560x1600@60Hz 1* LVDS up to 1920x1200@60Hz	Internal I/O Port	5* USB2.0, 1* LVDS, 1* eDP, 1* VGA, 3* COM (COM2: 5/12V), 1* Parallel, 1* GPIO, 1* Audio header
Storage	1* SATAII	WDT	256 segments (0 ~ 255sec)
		Power	4pin 12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size), 1* mSATA	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JIMB-1900-2L

Features

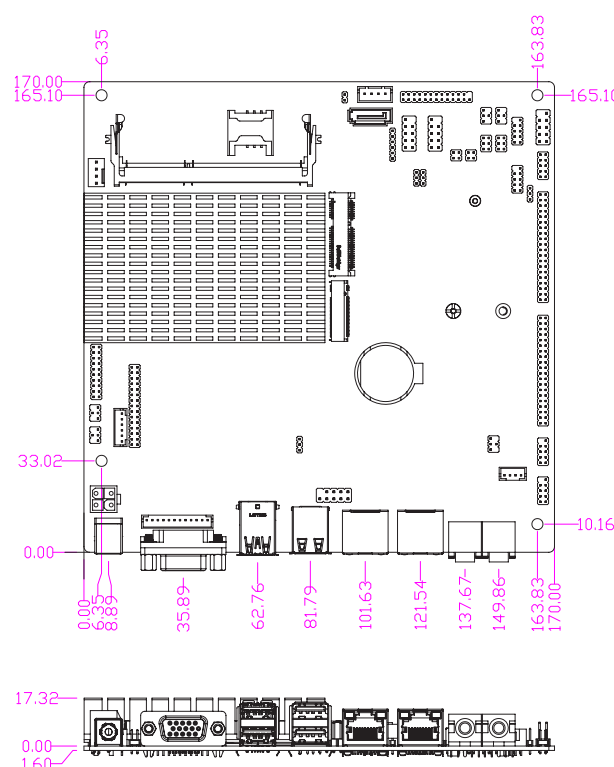


- Support Intel Quad Core J1900 processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA/ HDMI / LVDS
- 1* Mini PCIe
- 1* USB3.0, 9* USB2.0, 12* COM
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail J1900	Rear I/O Port	1* VGA, 2* GbE, 1* USB3.0, 3* USB2.0, Line-out, MIC, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	2* Realtek RTL8111G GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	1* VGA, 1* HDMI, 6* USB2.0, 1* LVDS, 12* COM (COM1/2: RS232/422/485), 1* GPIO, 1* PS/2, 1* Parallel
Storage	1* SATAII, 1* M.2 (M-key, 2242/2260)	WDT	N/A
		Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size), 1* SIM card slot	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNLBT-I1900

Features

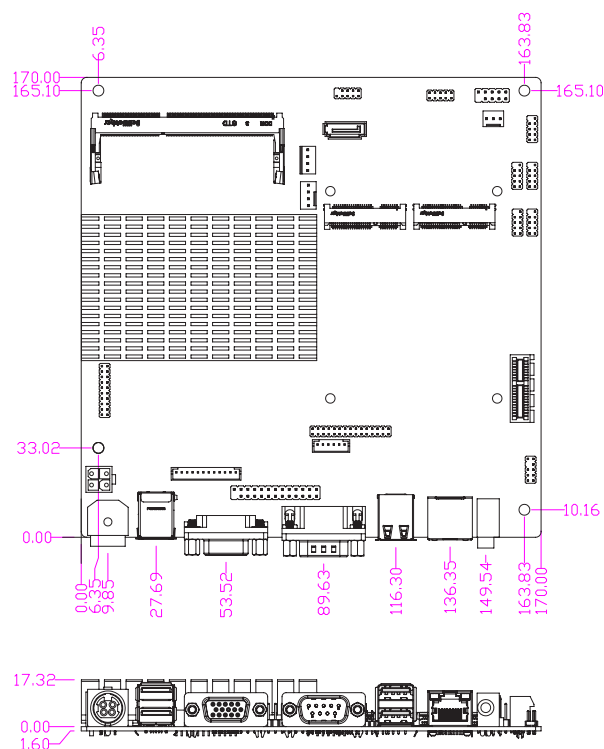


- Support Intel Quad Core J1900 processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA / HDMI / LVDS
- 1* PCIe x1, 1* Mini PCIe
- 1* USB3.0, 5* USB2.0, 6* COM, 1* GbE
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail J1900	Rear I/O Port	1* VGA, 1* RJ45, 1* USB3.0, 3* USB2.0, 1* COM, Line-out, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111G GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	1* VGA, 1* HDMI, 2* USB2.0, 1* LVDS, 5* COM, 1* GPIO, 1* Parallel, 1* Audio header, 1* HDMI_SPDIF header, 1* PS/2
Storage	1* SATAII, 1* mSATA (full size, shared)	WDT	0~255 Sec./Min. programmable
		Power	4pin 12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNLBT-I1900-2L

Features

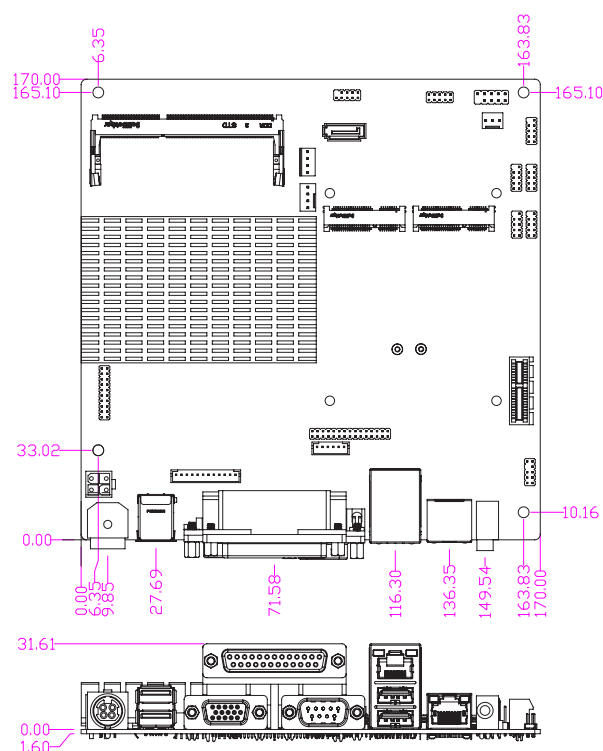


- Support Intel Quad Core J1900 processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA / HDMI / LVDS
- 1* PCIe x1, 1* Mini PCIe
- 1* USB3.0, 5* USB2.0, 6* COM, 2* GbE
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail J1900	Rear I/O Port	1* VGA, 2* RJ45, 1* USB3.0, 3* USB2.0, 1* COM, Line-out, 1* Parallel, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	2* Realtek RTL8111G GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	1* VGA, 1* HDMI, 2* USB2.0, 1* LVDS, 5* COM, 1* GPIO, 1* Audio header, 1* HDMI_SPDIF header, 1* PS/2
Storage	1* SATAII, 1* mSATA (full size)	WDT	0~255 Sec./Min. programmable
		Power	4pin 12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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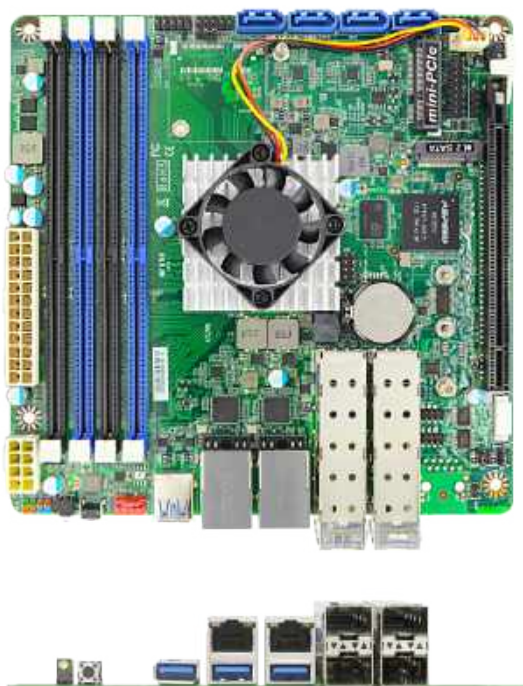
JNF699-C3758

Features

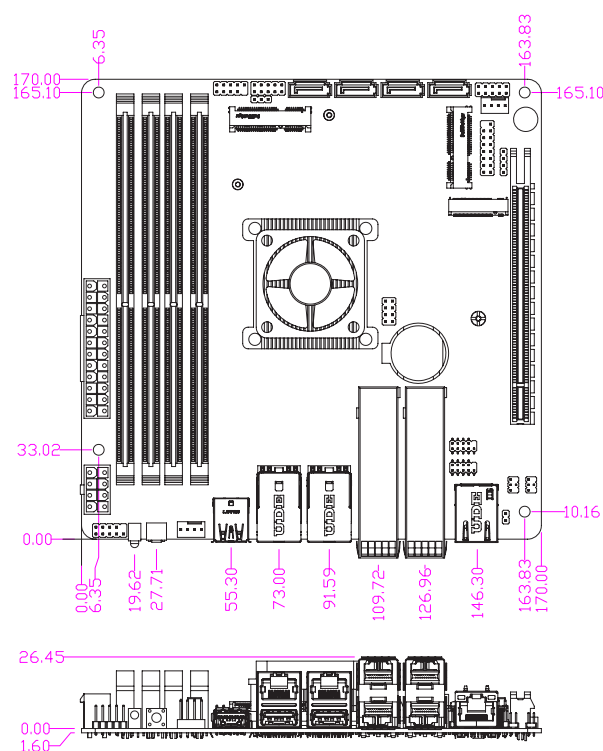


- Support Intel Eight Core C3758 processor
- 4* DDR4 2400MHz UDIMM/RDIMM up to 64/256GB with ECC
- 2* Intel GbE, 4* 10GbE SFP+ modules
- 1* PCIe x8, 1* Mini PCIe, 1* M.2 M-key
- 3* USB 3.0, 2* USB 2.0, 2* COM
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Denverton C3758	Rear I/O Port	2* RJ45, 4* 10GbE SFP+, 3* USB3.0, 1* Reset button
Memory	4* 288-pin UDIMM/RDIMM up to 64/256GB with ECC DDR4 2400MHz SDRAM	Internal I/O Port	2* USB2.0, 1* VGA, 2* COM, 1* GPIO, TPM1.2 onboard
Ethernet	2* Intel i211AT GbE, 4* 10GbE SFP+	WDT	0~255 Sec./Min. programmable
Graphic	1* VGA up to 1920×1200@60Hz	Power	24pin ATX + 8pin 12V
Storage	4* SATAIII, 1* M.2 (M-key, 2242/2260/2280)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x8 (use PCIe x16 slot), 1* Mini-PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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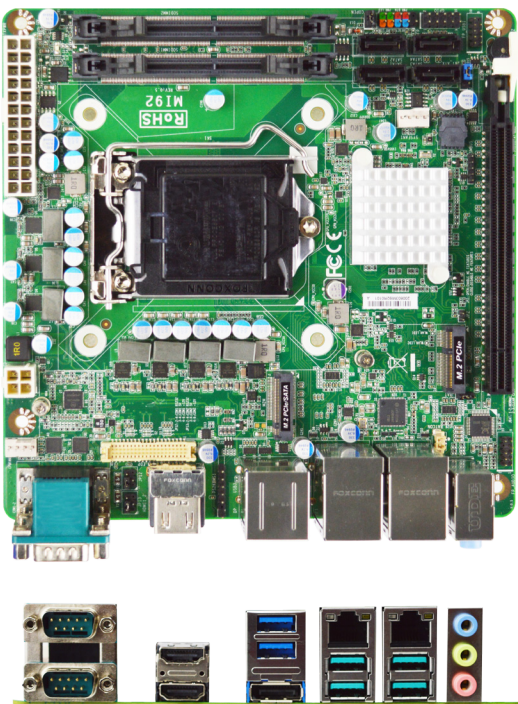
MI92 Series

Features

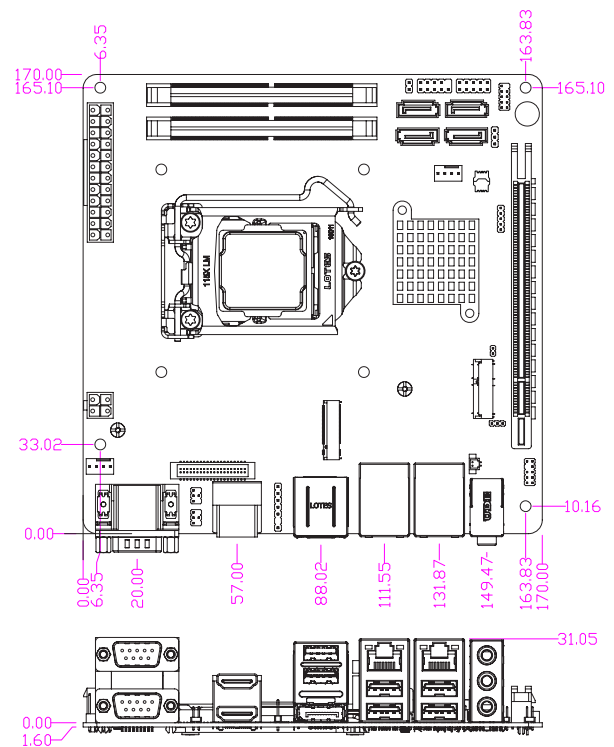


- Intel 10th LGA1200 Socket Processor (65W TDP)
- 2* DDR4 2666/2933MHz SO-DIMM up to 32 GB
- 2* HDMI, 1* DP, 1* eDP, support 3 Displays
- 2* RS232/422/485, 4* USB3.1 (Gen.2), 2* USB3.1 (Gen.1), 2* USB2.0, 2* GbE
- 1* PCIe x16, 1* M.2 M-key 2280 support NVMe, 1* M.2 E-key 2230 support CNVi, 4* SATAIII support RAID 0, 1, 5, 10
- Support onboard TPM 2.0 (MI92-12 only)

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA 1200 Processor with Q470E chipset	Rear I/O Port	2* HDMI, 1* DP, 2* RJ45, 4* USB 3.1 (Gen. 2), 2* USB3.1 (Gen. 1), Line-in, Line-out, MIC, 2* COM (COM1/2: RS232/422/485)
Memory	2* Dual CH non-ECC DDR4 2666/2933MHz SO-DIMM SDRAM up to 32GB	Internal I/O Port	2* USB 2.0, 1* eDP, 1* GPIO, 1* PS/2, 1* Audio Header, TPM2.0 onboard (MI92-12)
Ethernet	1* Intel i211AT GbE 1* Intel i219LM GbE	WDT	256 segments (10sec ~ 255min)
Graphic	1* eDP up to 1920×1200@60Hz 2* HDMI1.4 up to 4096×2160@30Hz 1* DP up to 4096×2304@60Hz	Power	24pin ATX + 4pin 12V
Storage	4* SATAIII support RAID 0, 1, 5, 10, 1* M.2 M-key 2280 (SATA/PCIe x4) support NVMe	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x16 slot, 1* M.2 E-key 2230 (PCIe x1/USB2.0) support CNVi	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNC8H-IH310

Features

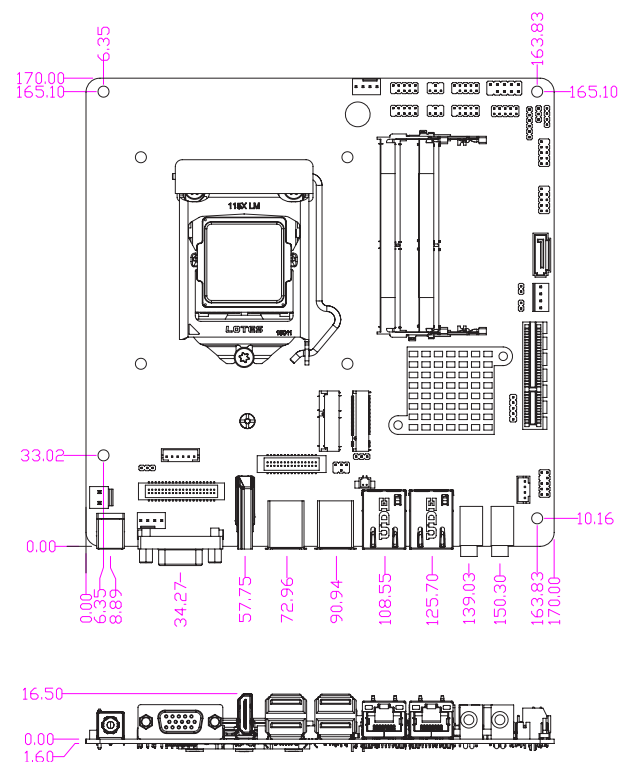


- Support Intel 8th/9th LGA1151 socket processor with Intel H310 chipset
- 2* DDR4 2666MHz SO-DIMM up to 32GB
- Support 1* PCIe x4, 1* M.2 M-key, 1* M.2 E-key
- Support 4* USB 3.1 (Gen.1), 5* USB 2.0, 4* COM
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 Processor with H310 chipset	Rear I/O Port	1* VGA, 1* HDMI, 2* RJ45,
Memory	2* DDR4 2666MHz SO-DIMM up to 32GB		4* USB3.1 (Gen. 1), MIC, Line-out, 1* DC-in
Ethernet	1* Intel I219-V GbE		
	1* Intel i211AT GbE	Internal I/O Port	5* USB2.0, 1* LVDS (co-lay w/eDP),
Graphic	1* VGA up to 1920x1200@60Hz		1* eDP, 4* COM (COM1/2: 5/12V),
	1* LVDS up to 1920x1200@60Hz		1* GPIO, 1* PS/2, 1* Audio header
	1* eDP up to 4096x2304@60Hz		
	1* HDMI up to 4096x2160@30Hz		
Storage	1* SATAIII, 1* M.2 (M-key, 2242)	WDT	256 segments (10sec ~ 255min)
		Power	12~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* M.2 (E-key, 2230), 1* PCIe x4	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF893-H310

Features

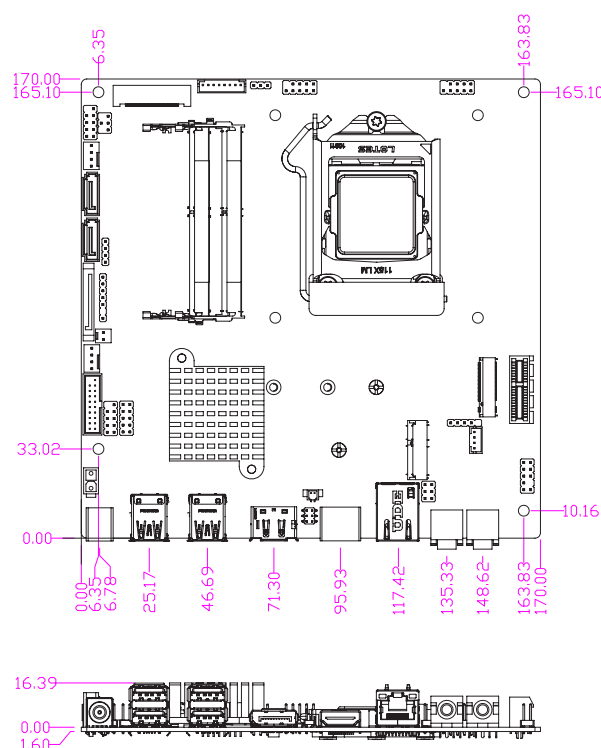


- Support Intel 8th/9th LGA1151 socket processor with Intel H310 chipset
- 2* DDR4 2666MHz SO-DIMM up to 32GB
- HDMI / DP / LVDS, support Dual displays
- 1* PCIe x1, 1* M.2 M-key, 1* M.2 E-key
- 4* USB 3.1(Gen. 1), 4* USB 2.0, 1* COM
- Thin Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 Processor with H310 chipset	Rear I/O Port	1* HDMI, 1* DP, 1* RJ45, 4* USB3.1 (Gen. 1),
Memory	2* DDR4 2400/2666MHz SO-DIMM up to 32GB		MIC, Line-out, 1* DC-in
Ethernet	1* Intel I219-V GbE		
Graphic	1* HDMI up to 4096x2160@30Hz	Internal I/O Port	1* COM, 4* USB2.0, 1* LVDS (co-lay w/ eDP), 1* GPIO, 1* PS/2, 1* Audio header,
	1* DP up to 4096x2304@60Hz		1* 3W speaker, 1* onboard TPM (option)
	1* LVDS up to 1920x1200@60Hz (option with eDP)		
	1* eDP up to 4096x2304@60Hz (option)		0~255 Sec./Min. programmable
Storage	2* SATAIII, 1* M.2 (M-key, 2242/2260/2280, SATA interface)	WDT	19V DC IN
		Power	Operating: 0~60°C w/ 0.7 m/s air flow
		Temperature	Storage: -20~85°C
Expansion Slot	1* PCIe x1,		170 * 170mm (6.69" * 6.69")
	1* M.2 (E-Key, 2230, PCIe x1 interface)	Dimension	

*The Specification may be changed without further notice.
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JNF797-Q370

Features

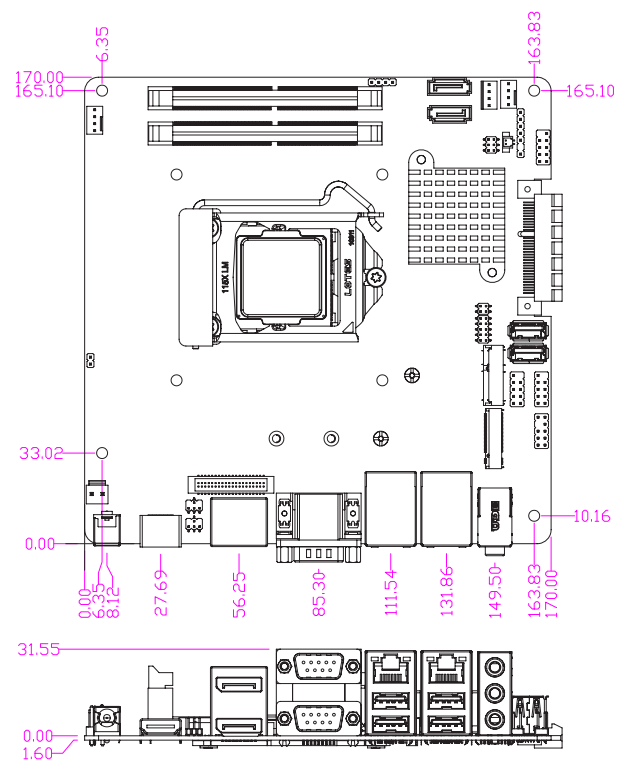


- Support Intel 8th/9th LGA1151 socket processor with Intel Q370 Chipset
- 2* DDR4 2400/2666MHz SO-DIMM up to 32GB
- HDMI / 2* DP / eDP, support Triple displays
- 1* PCIe x4, 1* M.2 (M-Key 2242/2260/2280), 1 * M.2 (E-key 2230)
- 6* USB3.1 (Gen. 2), 4* USB2.0
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 Processor with Q370 chipset	Rear I/O Port	1* HDMI (option with DP), 2* DP, 2* RJ45,
Memory	2* DDR4 2400/2666MHz SO-DIMM up to 32GB		4* USB3.1 (Gen. 2), 2* RS232/422/485,
			1* MIC, Line-in, Line-out, 1* DC-in
Ethernet	1* Intel i211AT GbE		
	1* Intel i219LM GbE	Internal I/O Port	2* USB3.1 (Gen. 2), 4* USB2.0, 1* eDP,
Graphic	1* HDMI up to 4096x2160@30Hz (option with DP)		1* GPIO, 1* PS/2, 1* onboard TPM2.0
	2* DP up to 4096x2304@60Hz		(option)
	1* eDP up to 4096x2304@60Hz		
		WDT	0~255 Sec./Min. programmable
Storage	2* SATAIII support RAID 0,1,	Power	9-36V DC IN
	1* M.2 (M-Key, 2242/2260/2280, PCIe x4 with SATA	Temperature	Operating: 0~60°C w/0.7 m/s air flow
	interface) support NVMe		Storage: -20~85°C
Expansion Slot	1* PCIe x4,	Dimension	170 * 170mm (6.69" * 6.69")
	1* M.2 (E-Key, 2230, PCIe x1 interface)		

*The Specification may be changed without further notice.
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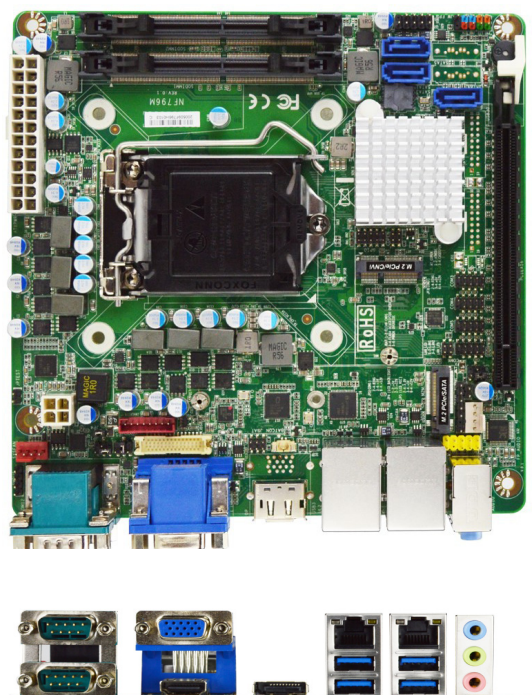
JNF796M-H310

Features

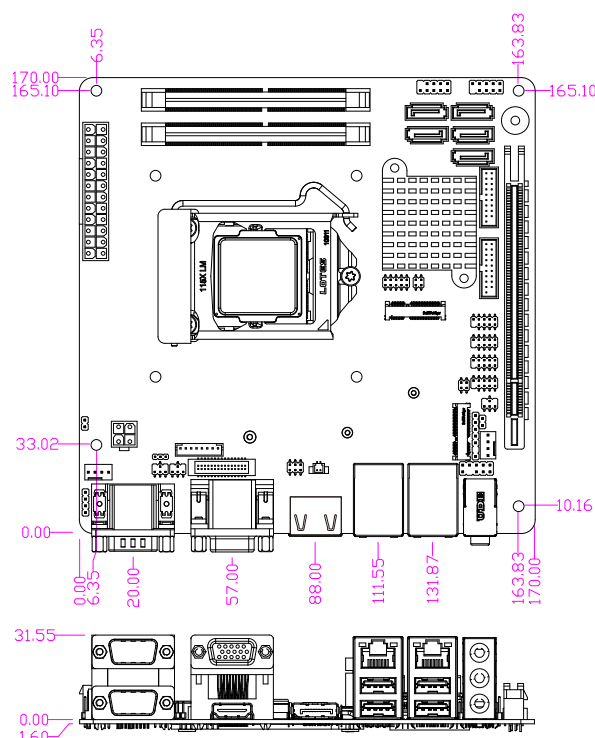


- Support Intel 8th/9th LGA1151 socket processor with Intel H310 chipset
- 2* DDR4 2400/2666MHz SO-DIMM up to 32GB
- 1* HDMI, 1* DP, 1* VGA, 1* LVDS
- 6* COM (COM1/2: RS232/422/485), 4* USB3.1 (Gen.1), 2* USB2.0, 2* GbE
- 3* SATAIII, 1* PCIe x16, 1* M.2 M-key 2242/2280 (SATA/PCIex4) support NVMe, 1* M.2 E-key 2230 (PCIex1/USB2.0) support CNVi, support onboard TPM 2.0 (option)
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 Processor with H310 chipset	Rear I/O Port	1* VGA, 1* HDMI, 1* DP, 2* RJ45, 4* USB3.1(Gen. 1), 2* RS232/422/485, MIC, Line-in, Line-out
Memory	2* DDR4 2400/2666MHz SO-DIMM up to 32GB	Internal I/O Port	2* USB2.0, 1* PS/2, 1* LVDS, 1* GPIO, 4* COM, 1* Audio Header, 1* onboard TPM (option)
Ethernet	1* Intel i211AT GbE	WDT	256 segments (10sec ~ 255min)
Graphic	1* Intel i219LM GbE	Power	24pin ATX + 4pin 12V
	1* VGA up to 1920x1200@60Hz	Temperature	Operating: 0~60°C with 0.7 m/s air flow
	1* HDMI up to 4096x2160@30Hz		Storage: -20~85°C
	1* DP up to 4096x2304@60Hz		
	1* Dual CH LVDS up to 1920x1200@60Hz		
Storage	3* SATAIII, 1* M.2 M-key 2242/2280 (SATA/PCIe x4) support NVMe	Dimension	170 * 170mm (6.69" * 6.69")
Expansion Slot	1* PCIe x16 slot, 1* M.2 E-key 2230 (PCIe x1/USB2.0) support CNVi		

*The Specification may be changed without further notice.
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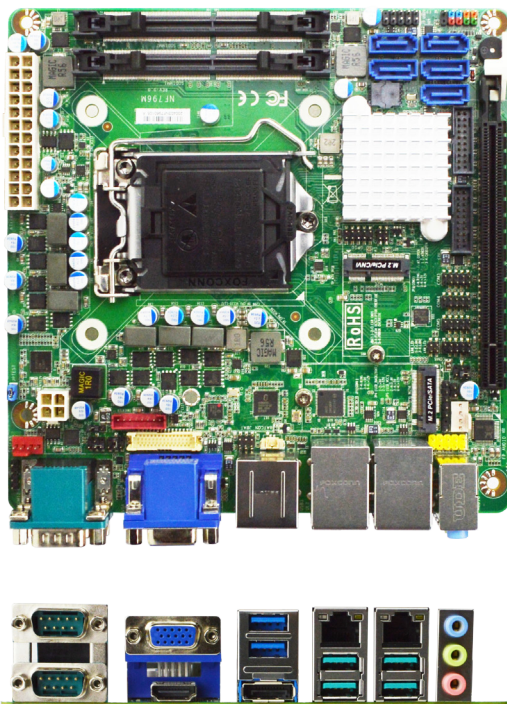
JNF796M Series

Features

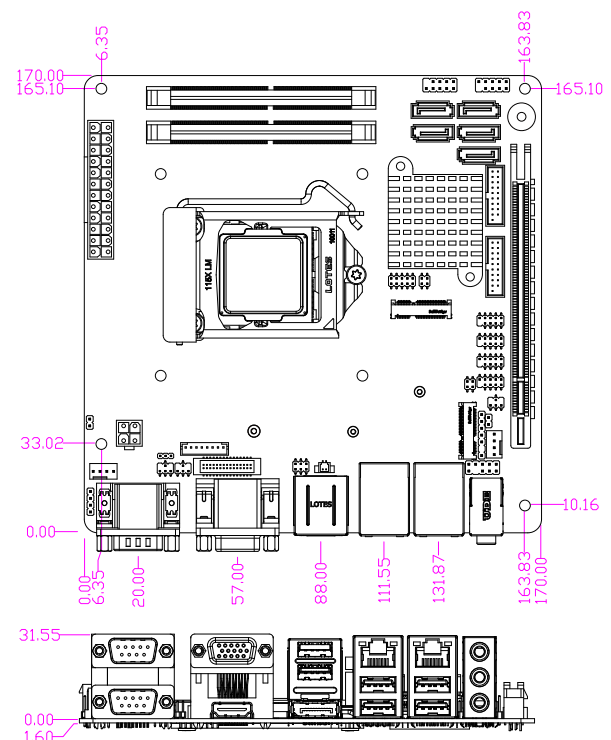


- Support Intel 8th/9th LGA1151 socket processor with Intel Q370/C246 chipset
- 2* DDR4 2400/2666MHz SO-DIMM up to 32GB (C246 support ECC)
- HDMI / DP / VGA / LVDS, support 3 Displays
- 6* COM (COM1/2: RS232/422/485), 4* USB3.1 (Gen.2), 6* USB3.1 Gen.1, 2* USB2.0, 2* GbE
- 1* PCIe x16, 1* M.2 M-key 2242/2280, 1* M.2 E-key 2230, 5* SATAIII
- Support onboard TPM 2.0 (option)
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 Processor with Q370/C246 chipset	Rear I/O Port	1* VGA, 1* HDMI, 1* DP, 2* RJ45, 4* USB3.1 (Gen. 2), 2* USB3.1 (Gen. 1), Line-in, Line-out, MIC, 2* COM (COM1/2: RS232/422/485)
Memory	2* Dual CH DDR4 2666MHz SO-DIMM up to 32GB (C246 support ECC)	Internal I/O Port	4* USB3.1 (Gen. 1), 2* USB 2.0, 1* LVDS, 4* COM, 1* GPIO, 1* Audio Header, Support onboard TPM2.0 (option)
Ethernet	1* Intel i211AT GbE	WDT	256 segments (10sec ~ 255min)
Graphic	1* Intel i219LM GbE	Power	24pin ATX + 4pin 12V
	1* VGA up to 1920x1200@60Hz	Temperature	Operating: 0~60°C w/0.7 m/s air flow
	1* HDMI 1.4 up to 4096x2160@30Hz		Storage: -20~85°C
	1* DP up to 4096x2304@60Hz		
	1* Dual CH LVDS up to 1920x1200@60Hz		
Storage	5* SATAIII support RAID 0, 1, 5, 10, 1* M.2 M-key 2242/2280 (SATA/PCIe x4) support NVMe	Dimension	170 * 170mm (6.69" * 6.69")
Expansion Slot	1* PCIe x16 slot, 1* M.2 E-key 2230 (PCIe x1/USB2.0) support CNVi		

*The Specification may be changed without further notice.
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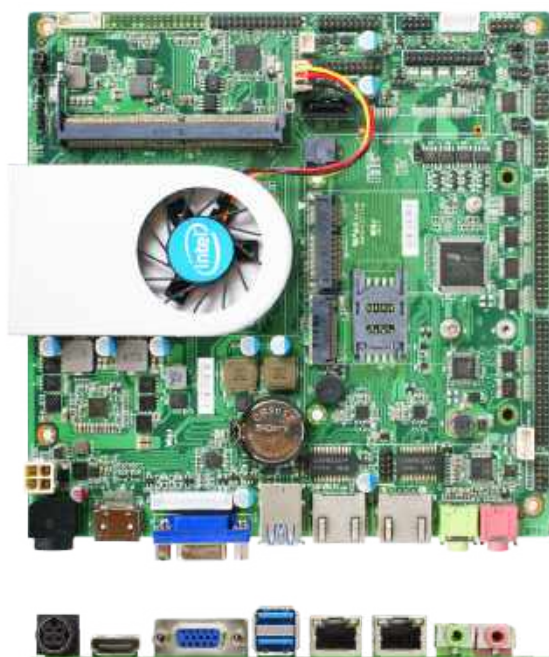
JNC6J-I7100-2L

Features

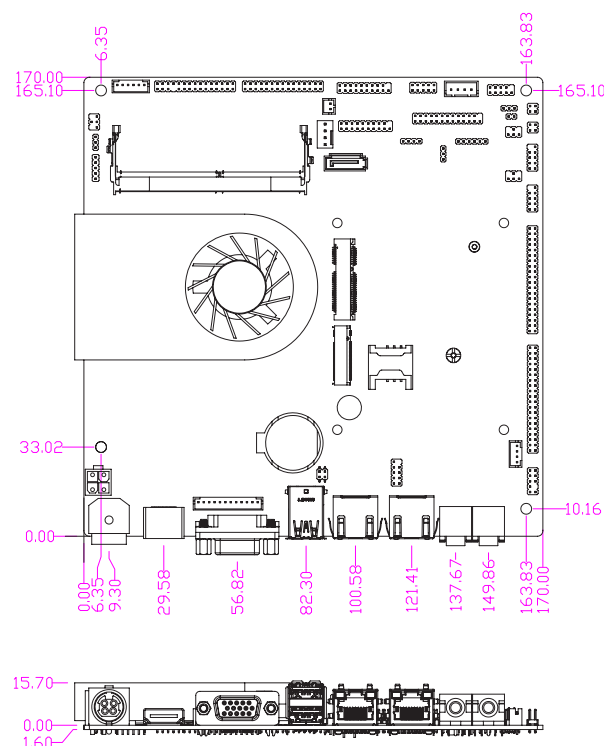


- Support Intel Kabylake Celeron i3-7100U Processor
- 1* DDR4 2133/1866MHz SO-DIMM up to 16GB
- VGA / LVDS / HDMI, eDP / DP (option), support triple display
- 1* Mini PCIe, 1* M.2 (2242/2260) connector for SSD
- 4* USB3.0, 3* USB2.0, 2* GbE
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Kabylake Celeron i3-7100U	Rear I/O Port	1* VGA, 1* HDMI (option), 1* DP (option), 2* GbE, 2* USB3.0, MIC, Line-out, 1* DC-in
Memory	1* DDR4 2133/1866MHz SO-DIMM up to 16GB		
Ethernet	2* Realtek RTL8111G GbE		2* USB3.0, 3* USB2.0, LVDS / eDP
Graphic	1* VGA up to 1920x1200@60Hz 1* LVDS up to 1920x1200@60Hz (Option) 1* eDP up to 4096x2304@60Hz (option) 1* HDMI up to 4096x2304@24Hz 1* DP up to 4096x2304@60Hz (option)	Internal I/O Port	(option), 1* VGA, 10* COM (COM1/2: RS232/422/485, 2* RS232: 5/12V), 1* SIM card holder, 1* GPIO, 1* Parallel, 1* Audio Header, 1* 3W speaker
Storage	1* SATAIII, 1* M.2 (2242/2260)	WDT	0~255 Sec./Min. programmable
		Power	12V DC IN (4-pin PWR Con)
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size), 1* SIM card holder	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
www.jetwayipc.com

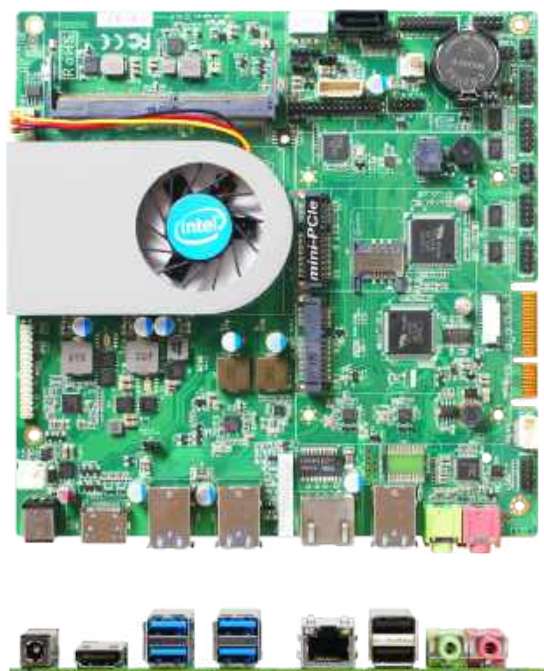
JNC8D-I3855

Features

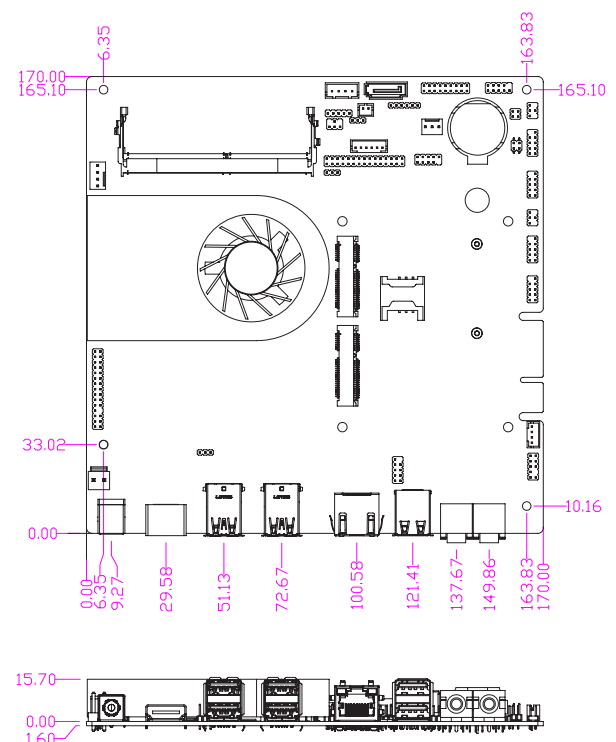


- Support Intel Skylake-U 3855U (Co-lay i3/i5/i7 Series)
- 1* DDR4 2133MHz SO-DIMM up to 16GB
- VGA / LVDS / eDP / HDMI, support 2 displays
- 1* Mini PCIe, 1* mSATA, 1* PCIe x4, 1* SIM card holder
- 4* USB3.0, 2* USB2.0, 1* GbE
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Skylake-U 3855U SoC CPU	Rear I/O Port	1* HDMI (Co-lay VGA), 1* RJ45, 4* USB3.0, 2*USB2.0, 1* MIC, 1* Line-out, 1* DC-in
Memory	1* DDR4 2133MHz SO-DIMM up to 16GB		
Ethernet	1* Realtek RTL8111G GbE		
Graphic	1* VGA up to 1920×1200@60Hz 1* LVDS up to 2560×1600@60Hz 1* eDP up to 4096×2304@60Hz 1* HDMI up to 4096×2304@24Hz	Internal I/O Port	2* USB2.0, 1* LVDS, 1* eDP, 1* VGA (Co-lay HDMI), 4* COM (COM1/2: 5/12V TTL), 1* GPIO, 1* Audio header, 1* SIM card holder
Storage	1* SATAIII	WDT	0~255 Sec.
		Power	12V DC IN
		Temperature	Operating: -10~60°C w/0.7 m/s air flow Storage: -20~70°C
Expansion Slot	1* Mini PCIe (full size), 1* mSATA, 1* PCIe x4 gold finger	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
www.jetwayipc.com

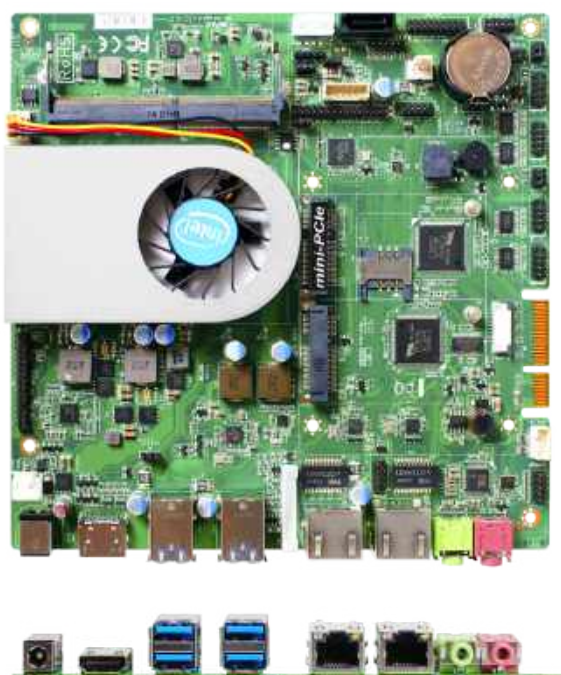
JNC8D-I3855-2L

Features

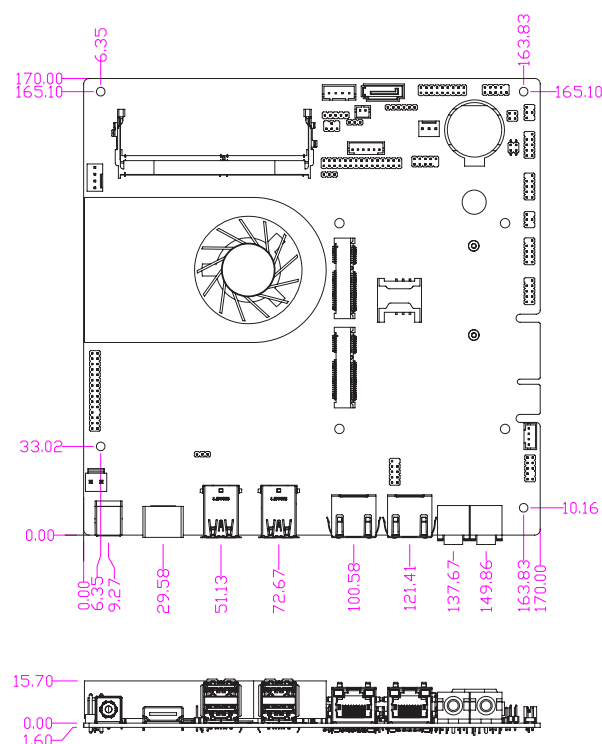


- Support Intel Skylake-U 3855U (Co-lay i3/i5/i7 Series)
- 1* DDR4 2133MHz SO-DIMM up to 16GB
- VGA / LVDS / eDP / HDMI, support 2 displays
- 1* Mini PCIe, 1* mSATA, 1* PCIe x4, 1* SIM holder
- 4* USB3.0, 4* USB2.0, 2* GbE
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Skylake-U 3855U SoC CPU	Rear I/O Port	1* HDMI (Co-lay VGA), 2* RJ45, 4* USB3.0, 1* MIC, 1* Line-out, 1* DC-in
Memory	1* DDR4 2133MHz SO-DIMM up to 16GB		
Ethernet	2* Realtek RTL8111G GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* LVDS up to 2560x1600@60Hz 1* eDP up to 4096x2304@60Hz 1* HDMI up to 4096x2304@24Hz	Internal I/O Port	4* USB2.0, 1* LVDS, 1* eDP, 1* VGA (Co-lay HDMI), 4* COM (COM1/2: 5/12V TTL), 1* GPIO, 1* Audio header, 1* SIM card holder
Storage	1* SATAIII	WDT	0~255 Sec.
		Power	12V DC IN
		Temperature	Operating: -10~60°C w/0.7 m/s air flow Storage: -20~70°C
Expansion Slot	1* Mini PCIe (full size), 1* mSATA, 1* PCIe x4 gold finger	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
www.jetwayipc.com

JNF795-Q170

Features

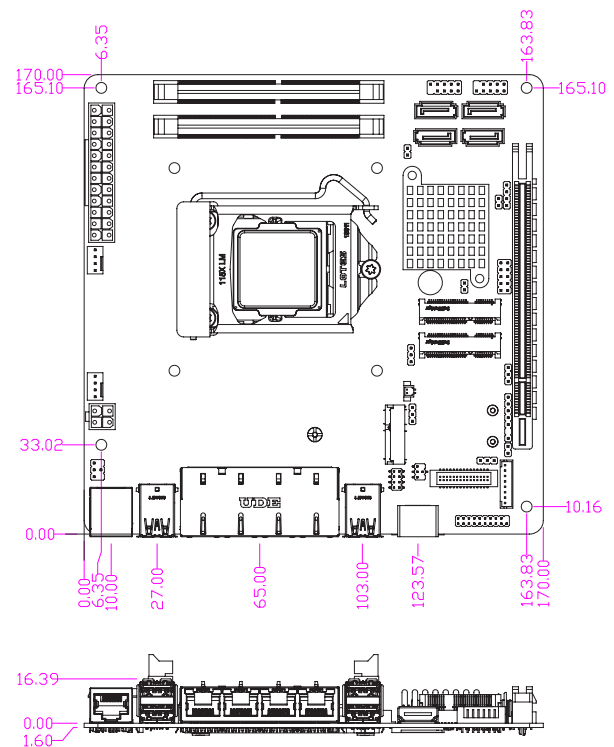


- Support Intel 6th/7th LGA1151 socket processor with Intel Q170 chipset
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- HDMI / LVDS, support Dual displays
- 1* PCIe x16, 1* Mini PCIe, 1* mSATA, 1* M.2 (E-key 2230)
- Support 6* USB3.0, 2* USB2.0
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 Processor with Q170 Chipset	Rear I/O Port	4* RJ45, 4* USB3.0, 1* HDMI, 1* COM (RJ45 Type), 1* SIM card holder (back side)
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB		
Ethernet	3* Intel i211AT GbE		
	1* Intel i219LM GbE	Internal I/O Port	2* USB3.0, 2* USB2.0, 1* GPIO, 1* PS/2, onboard TPM2.0 (option)
Graphic	1* HDMI up to 4096x2160@24Hz		
	1* Dual CH LVDS up to 1920x1200 @60Hz		
		WDT	0~255 Sec./Min. programmable
Storage	4* SATAIII,	Power	24pin ATX + 4pin 12V
	1* mSATA (full size, SATA + USB interface)	Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* PCIe x16, 1* Mini PCIe (half size, PCIe+USB I/F),		
	1* M.2 (E-key, 2230), 1* SIM card slot (back side)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
www.jetwayipc.com

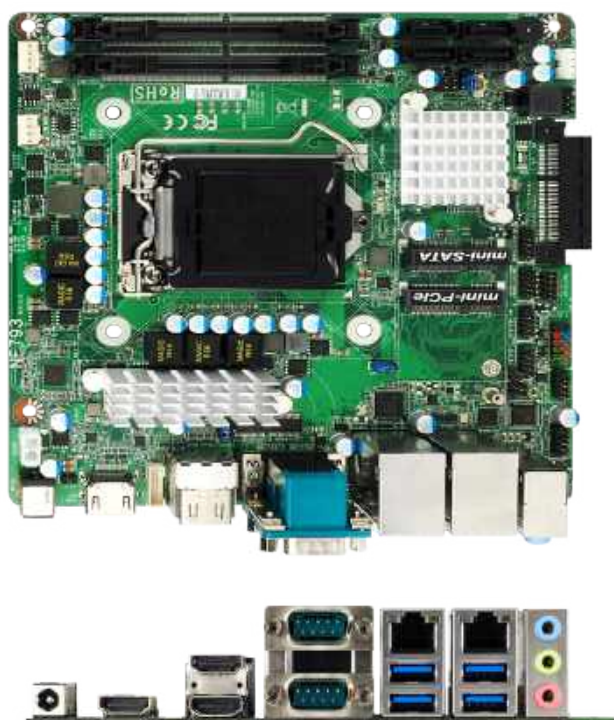
JNF793-Q170

Features

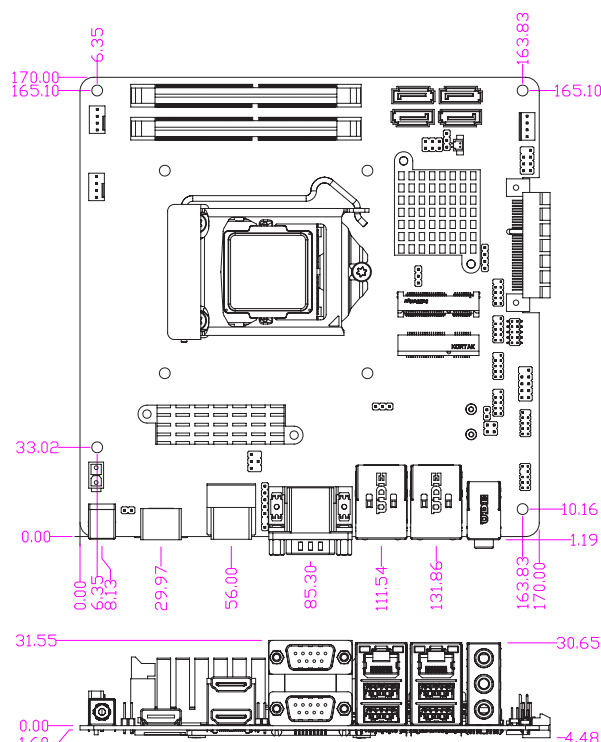


- Support Intel 6th/7th LGA1151 socket processor with Intel Q170 chipset
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- 3* HDMI (default) or 2* HDMI + 1* DP, support Triple displays
- 1* PCIe x4, 1* Mini PCIe
- 4* USB3.0, 2* USB2.0
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 Processor with Q170 Chipset	Rear I/O Port	3* HDMI (or 2* HDMI+1* DP), 2* RJ45,
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB		4* USB3.0, Line-out, Line-in, MIC, 2* COM
			(COM1/2: RS232/422/485), 1* DC-in
Ethernet	1* Intel i211AT GbE	Internal I/O Port	2* USB2.0, 1* GPIO, 4* COM, 1* PS/2,
	1* Intel i219LM GbE		1* Audio header, 1* onboard TPM (option)
Graphic	3* HDMI up to 4096x2304@24Hz		
	1* DP up to 3840x2160@60Hz (option)		
		WDT	0~255 Sec./Min. programmable
Storage	4* SATAIII support RAID 0,1,5,10, 1* mSATA (full size)	Power	9~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x4, 1* Mini PCIe (half size), 1* SIM card slot	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF791 Series

Features

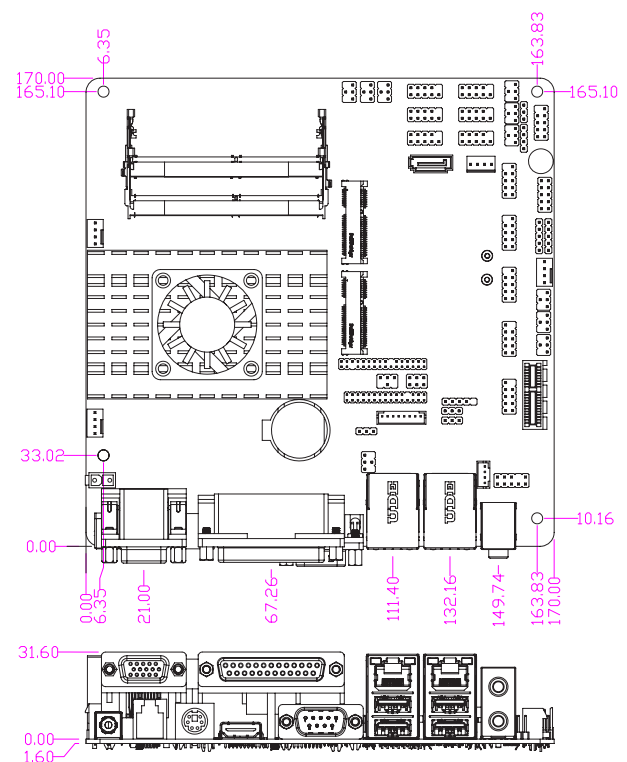


- Support Intel Skylake 3955U, Kabylake 3965U (FCBGA1356)
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- VGA / HDMI / LVDS / eDP, support Triple displays
- 1* PCIe x1, 1* Mini PCIe(shared), 1* Mini PCIe (full size)
- 4* USB3.0, 5* USB2.0
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel 3955U/3965U SoC CPU	Rear I/O Port	1* VGA, 1* HDMI, 2* RJ45, 4* USB3.0, 1* RS232/422/485, 1* Parallel, Line-out, MIC, Line-in, PS/2, RJ11, 1* DC-in
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB	Internal I/O Port	5* USB2.0, 1* LVDS/eDP (selectable), 9* COM, 1* GPIO, 1* Audio header, 1* 3W Speaker
Ethernet	2* Realtek RTL8111H GbE	WDT	0~255 Sec./Min. programmable
Graphic	1* HDMI up to 4096x2160@24Hz 1* VGA up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz 1* eDP up to 4096x2304@60Hz	Power	12V DC IN
Storage	1* SATAIII, 1* mSATA (full size)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* Mini PCIe (full size, shared), 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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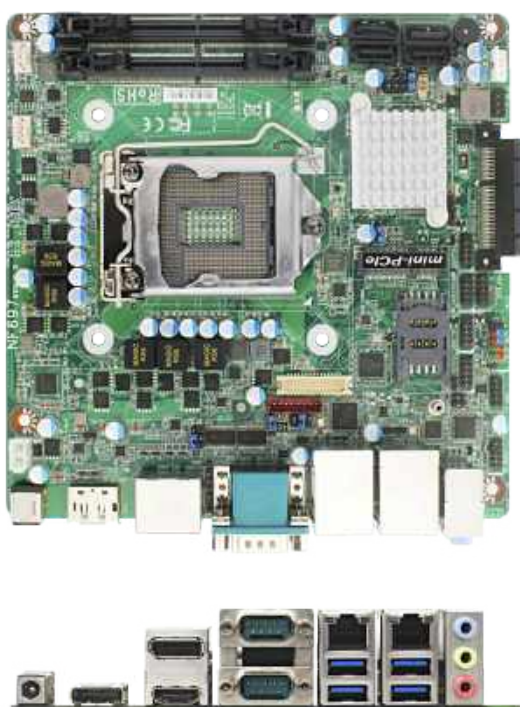
JNF697-Q170

Features

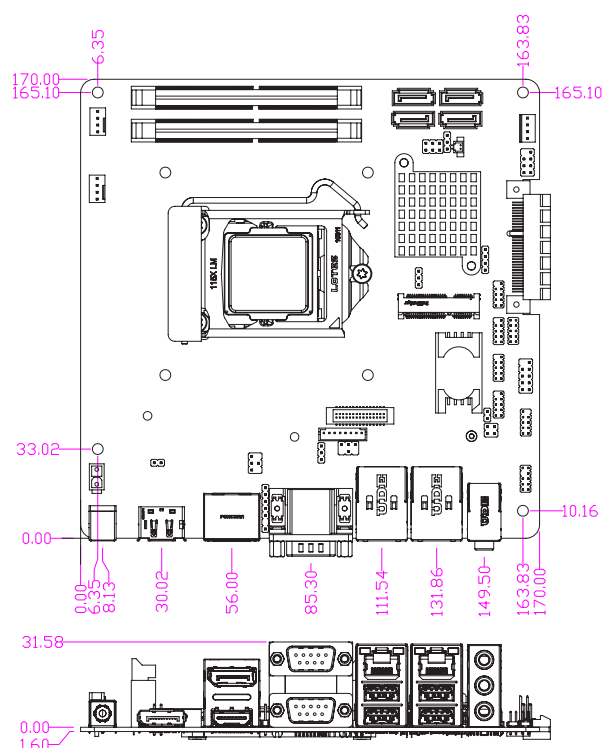


- Support Intel 6th/7th LGA1151 socket processor with Intel Q170 chipset
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- 1* HDMI, 2* DP, 1* LVDS, support Triple displays
- 1* PCIe x4, 1* Mini PCIe
- 4* USB3.0, 2* USB2.0
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 CPU with Q170 Chipset	Rear I/O Port	1* HDMI, 2* DP, 2* RJ45, 4* USB3.0,
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB		2* COM (COM2: RS232/422/485), Line-out,
			Line-in, MIC, 1* DC-in
Ethernet	1* Intel i211AT GbE	Internal I/O Port	2* USB2.0, 1* LVDS, 4* COM, 1* GPIO,
	1* Intel i219LM GbE		1* PS/2, 1* Audio header, 1* onboard TPM
Graphic	1* HDMI up to 4096x2160@24Hz		(option)
	2* DP up to 3840x2160@24Hz		
	1* Dual CH LVDS up to 1920x1200@60Hz		
		WDT	0~255 Sec./Min. programmable
Storage	4* SATAIII support RAID 0,1,5,10	Power	9~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* PCIe x4, 1* Mini PCIe (full size), 1* SIM card slot	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF693-H110

Features

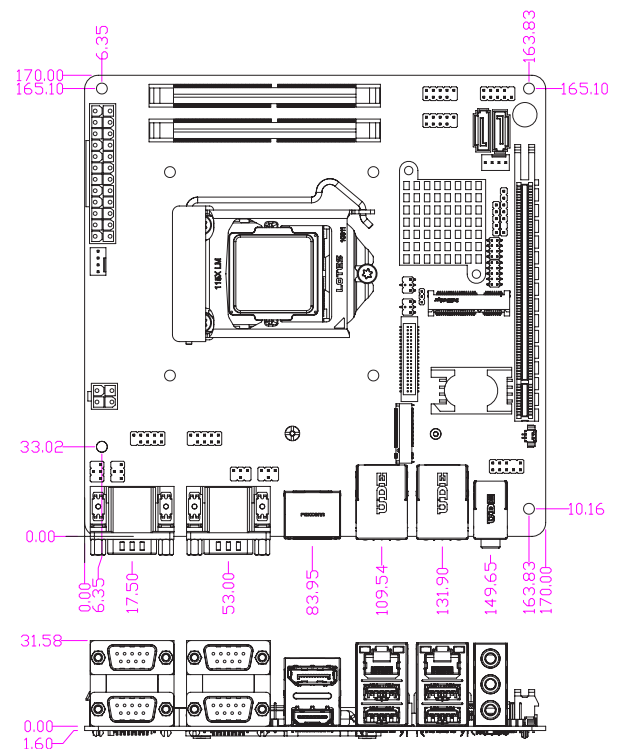


- Support Intel 6th/7th LGA1151 socket processor with Intel H110 chipset
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- HDMI / DP / eDP, support Dual displays
- 1* PCIe x16, 1* Mini PCIe (shared)
- 4* USB3.0, 4* USB2.0
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 CPU with H110 Chipset	Rear I/O Port	1* HDMI, 1* DP, 2* RJ45, 4* USB3.0,
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB		4* COM (COM1: RS232/422/485), Line-out,
			Line-in, MIC
Ethernet	2* Realtek RTL8111G GbE	Internal I/O Port	4* USB2.0, 1* eDP, 2* COM (COM5:
Graphic	1* HDMI up to 4096x2160@24Hz		RS232/422/485), 1* GPIO,
	1* DP up to 3840x2160@24Hz		1* Audio header, 1* PS/2,
	1* eDP up to 4096x2304@60Hz		1* onboard TPM (option)
		WDT	0~255 Sec./Min. programmable
Storage	2* SATAIII, 1* mSATA (full size), 1* M.2 (M-key 2242/2260)	Power	24pin ATX + 4pin 12V
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* PCIe x16, 1* Mini PCIe (full size shared), 1* SIM card slot	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
www.jetwayipc.com

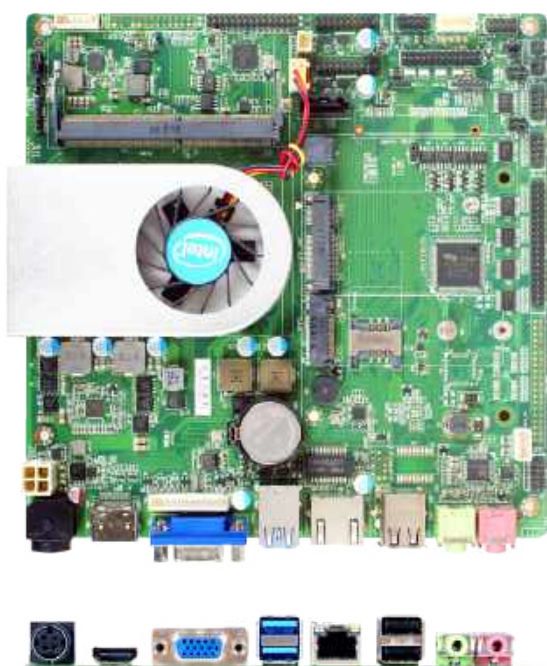
JNC6J-I3855-6C

Features

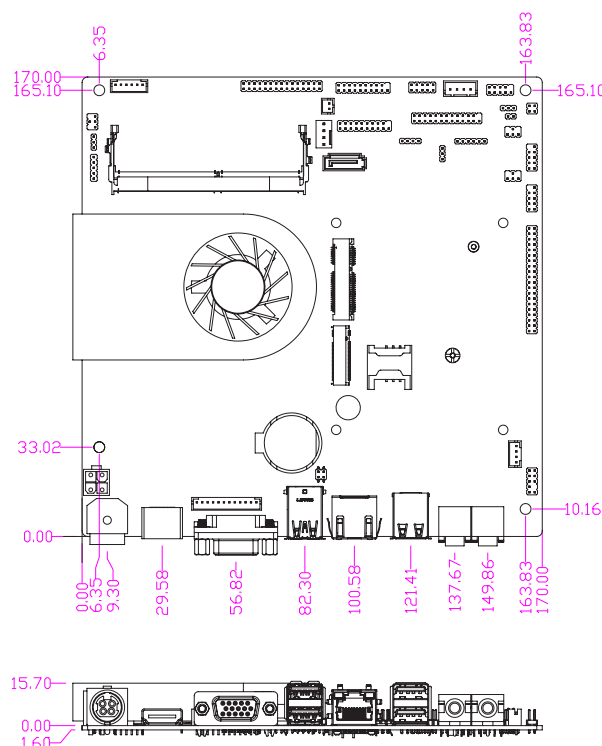


- Support Intel Skylake 3855U (FCBGA1356)
- 1* DDR4 2133/1866MHz SO-DIMM up to 16GB
- Support triple display, 1* VGA, LVDS/HDMI/ eDP/DP (option)
- 1* Mini PCIe, 1* M.2, 1* SIM holder
- 4* USB3.0, 3* USB2.0
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel 3855U SoC CPU	Rear I/O Port	1* VGA, HDMI/DP (option), 1* RJ45,
Memory	1* DDR4 2133/1866MHz SO-DIMM up to 16GB		2* USB3.0, 2* USB2.0, MIC, Line-out,
			1* DC-in
Ethernet	1* Realtek RTL8111G GbE	Internal I/O Port	2* USB3.0, 1* USB2.0, 1* GPIO, 1* VGA,
Graphic	1* VGA up to 1920x1200@60Hz		1* LVDS/eDP (option), 6* COM (COM1/2:
	1* Dual CH LVDS up to 1920x1200@60Hz		RS232/422/485, 2* RS232: 5/12V),
	1* eDP up to 4096x2304@60Hz (option)		1* Audio header, 1* 3W Speaker, 1* SIM
	1* HDMI up to 4096x2304@24Hz		card holder
	1* DP up to 4096x2304@60Hz	WDT	0~255 Sec./Min. programmable
Storage	1* SATAIII, 1* M.2 (2242/2260)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF595-H110

Features

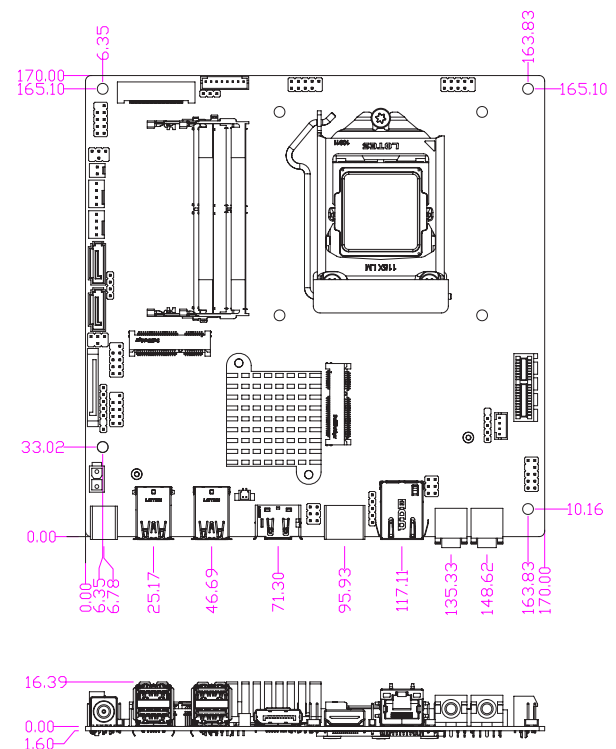


- Support Intel 6th/7th LGA1151 socket processor with Intel H110 chipset
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- 1* HDMI, 1* DP, 1* LVDS, support Dual displays
- 1* PCIe x1 (Vertical or at side option), 1* Mini PCIe
- 4* USB3.0, 4* USB2.0
- Thin Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 CPU with H110 Chipset	Rear I/O Port	1* HDMI, 1* DP, 1* RJ45, 4* USB3.0, Line-out, MIC, 1* DC-in
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB		
Ethernet	1* Intel i219V GbE		
Graphic	1* HDMI up to 4096x2160@24Hz 1* DP up to 3840x2160@24Hz 1* Dual CH LVDS up to 1920x1200 @60Hz	Internal I/O Port	4* USB2.0, 1* LVDS, 2* COM (1* RS232/422/485), 1* GPIO, 1* Audio header, 1* onboard TPM (option)
		WDT	0~255 Sec./Min. programmable
Storage	2* SATAIII, 1* mSATA (full size)	Power	19V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1 (Vertical or at side option), 1* Mini PCIe (full size)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF594-Q170

Features

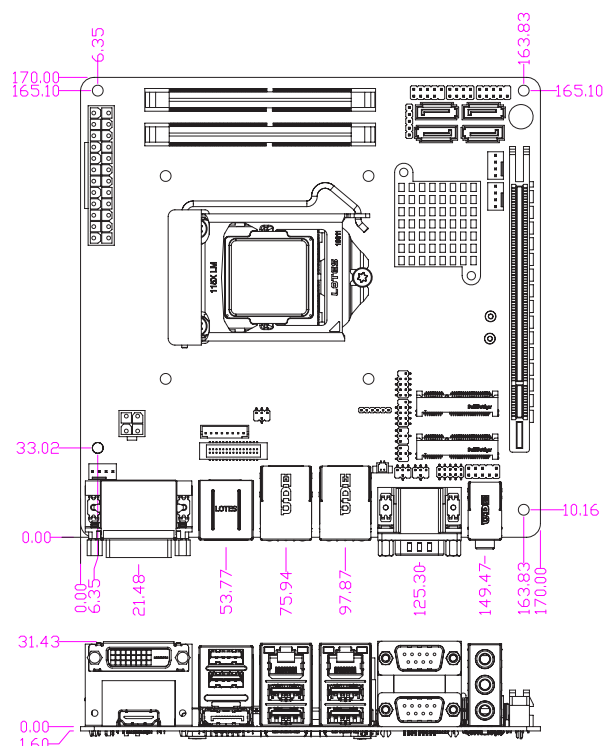


- Support Intel 6th/7th LGA1151 socket processor with Intel Q170 chipset
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- HDMI / DP / DVI-D / LVDS, support Triple displays
- 1* PCIe x16, 2* Mini PCIe (1 shared)
- 6* USB3.0, 2* USB2.0
- Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 CPU with Q170 Chipset	Rear I/O Port	1* HDMI, 1* DP, 1* DVI-D, 2* RJ45,
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB		6* USB3.0, Line-out, Line-in, MIC,
			2* COM (COM1: RS232/422/485)
Ethernet	1* Intel i211AT GbE	Internal I/O Port	2* USB2.0, 1* LVDS, 2* COM (COM3:
	1* Intel i219LM GbE		RS232/422/485), 1* GPIO, 1* PS/2,
Graphic	1* HDMI up to 4096x2160@24Hz		1* Audio header, 1* onboard TPM (option)
	1* DP up to 3840x2160@24Hz		
	1* DVI-D up to 1920*1080@60Hz		
	1* Dual CH LVDS up to 1920x1200@60Hz		
Storage	4* SATAIII support RAID 0,1,5,10,	WDT	0~255 Sec./Min. programmable
	1* mSATA (full size)	Power	24pin ATX + 4pin 12V
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* PCIe x16, 2* Mini PCIe (1* Half size & 1* Full size shared with mSATA)	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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JNF592-Q170

Features

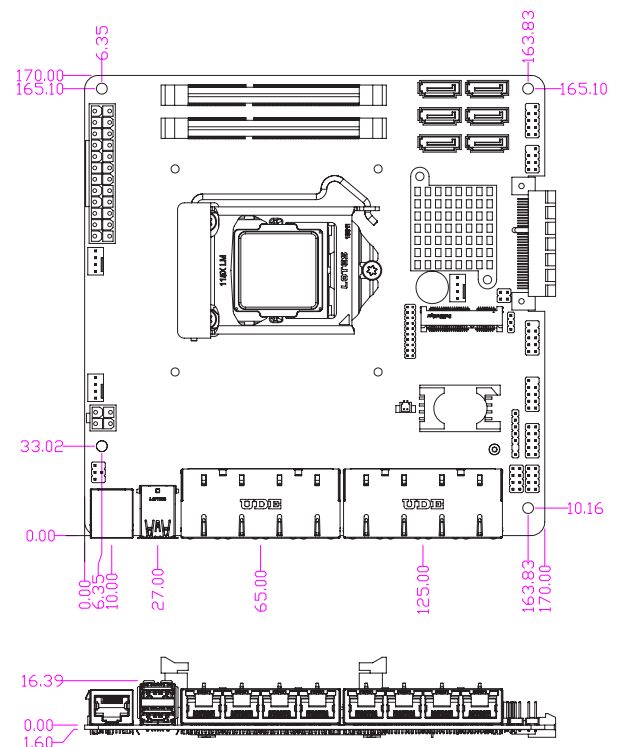


- Support Intel 6th/7th LGA1151 socket processor with Intel Q170 chipset
- 2* DDR3L 1600MHz SO-DIMM up to 16GB
- 1* HDMI, 8* Intel GbE
- 1* PCIe x4, 1* Mini PCIe
- 2* USB3.0, 4* USB2.0
- Slim Mini ITX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	LGA1151 CPU with Q170 Chipset	Rear I/O Port	8* RJ45, 2* USB3.0, 1* COM (RJ45 type)
Memory	2* DDR3L 1600MHz SO-DIMM up to 16GB		
Ethernet	7* Intel i211AT GbE		
	1* Intel i219LM GbE	Internal I/O Port	4* USB2.0, 1* GPIO, 1* PS/2, 1* HDMI, 1* Audio header
Graphic	1* HDMI up to 4096x2160@24Hz		
			0~255 Sec./Min. programmable
		WDT	24pin ATX + 4pin 12V
Storage	6* SATAIII support RAID 0,1,5,10	Power	Operating: 0~60°C w/0.7 m/s air flow
		Temperature	Storage: -20~85°C
Expansion Slot	1* PCIe x4, 1* Mini PCIe (full size), 1* SIM card slot	Dimension	170 * 170mm (6.69" * 6.69")

*The Specification may be changed without further notice.
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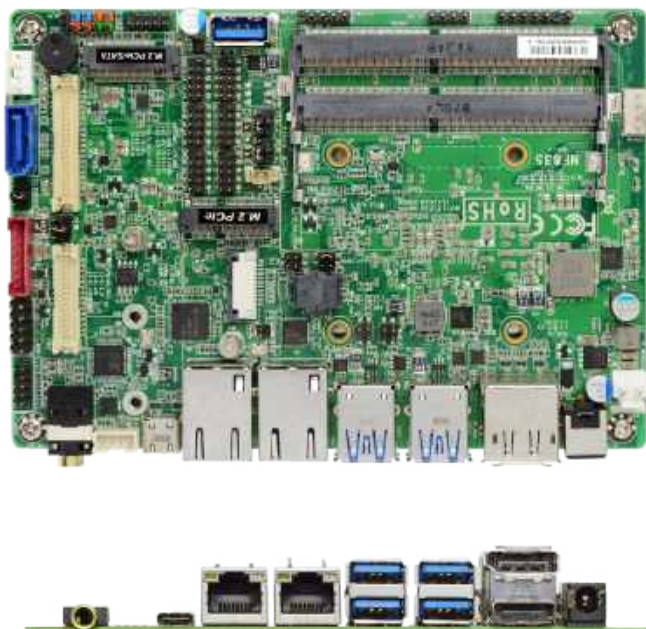
JNF835 Series

Features

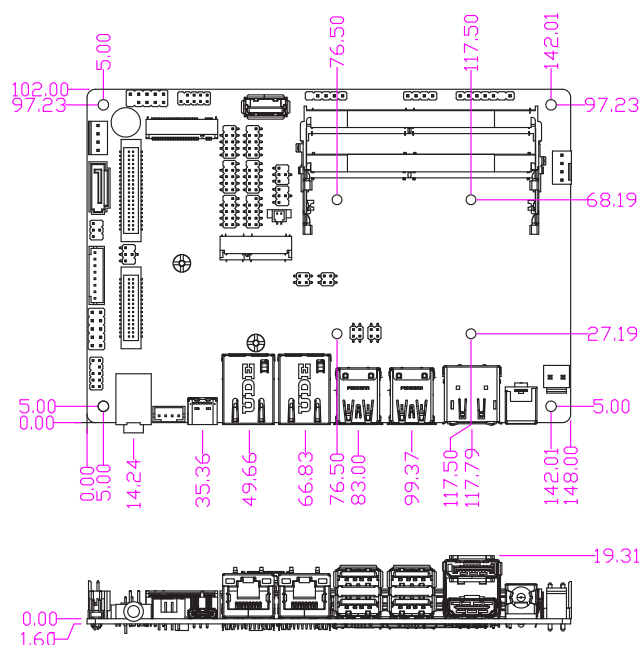


- Intel Whiskey Lake-U Series SoC Processor (TDP 15W)
- 2* DDR4 2400MHz SO-DIMM up to 32 GB
- HDMI / DP / eDP / LVDS, support Triple displays
- 6* COM (COM1: RS232/422/485), 4* USB3.1 (Gen.2), 2* USB3.1 (Gen.2, Type C & Vertical type), 3* USB2.0, 2* GbE
- 1* M.2 M-key 2242/2260/2280 PCIe x4 / SATA interface support NVMe
- Support onboard TPM 2.0 (option)
- Support Wide Voltage 9~24V DC-in

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Whiskey Lake-U Series SoC Processor	Rear I/O Port	1* HDMI, 1* DP, 2* RJ45, 4* USB3.1 (Gen.2), 1* USB 3.1(Gen2) Type C, Line-out, 1* DC-in
Memory	2* DDR4 2400MHz SO-DIMM up to 32GB	Internal I/O Port	1* USB3.1(Gen2) vertical connector, 3* USB 2.0, 1* LVDS +1* eDP (selectable), 6* COM (COM1: RS232/422/485), 1* GPIO, 1* Audio header, onboard TPM2.0 (option)
Ethernet	1* Intel i211AT GbE 1* Intel i219LM GbE	WDT	256 segments (10sec ~ 255min)
Graphic	1* HDMI 1.4 up to 4096x2160@30Hz 1* DP up to 4096x2304@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz 1* eDP up to 4096x2304@60Hz	Power	9~24V DC IN
Storage	1* SATAIII, 1* M.2 M-key 2242/2260/2280 PCIe x4 / SATA interface support NVMe	Temperature	Operating: 0~60°C w/ 0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* M.2 E-key 2230 PCIe x1 interface support CNVi	Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
www.jetwayipc.com

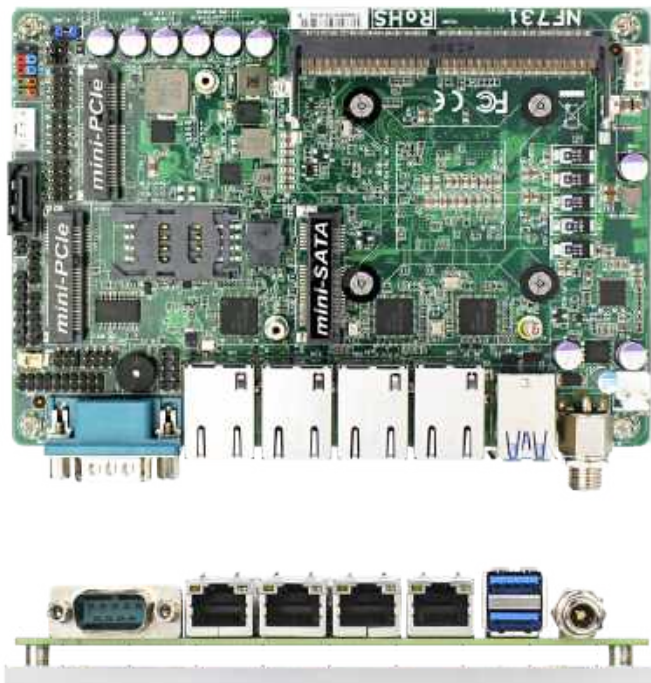
JNF731 Series

Features

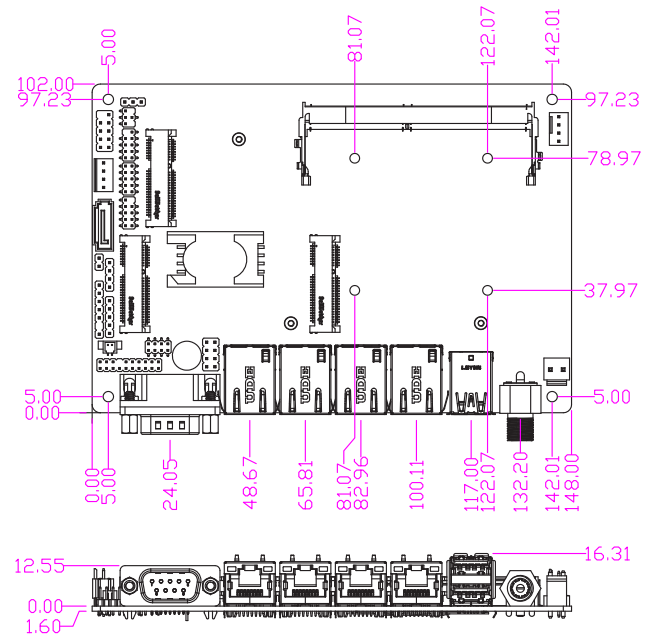


- Support Intel Skylake-U/Kabylake-U Series SoC Processor
- 1* DDR4 2133MHz SO-DIMM up to 16GB
- 1* mSATA (full size), 1* Mini PCIe (full size), 1* Mini PCIe (half size), 1* SIM card holder
- 2* USB3.0, 3* USB2.0, 4* GbE
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Skylake-U/Kabylake-U SoC Processor	Rear I/O Port	4* RJ45, 2* USB3.0, 1* COM, 1* DC-in
Memory	1* DDR4 2133MHz SO-DIMM up to 16GB		
Ethernet	3* Intel i211AT GbE		
	1* Intel i219LM GbE	Internal I/O Port	3* USB2.0, 1* RS232/422/485, 1* GPIO,
Graphic	1* HDMI up to 4096x2160@24Hz		1* HDMI, 1* PS/2, onboard TPM2.0 (option)
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAIII, 1* mSATA (full size)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size),	Dimension	148 * 102mm (5.83" * 4.01")
	1* Mini PCIe (half size), 1* SIM card slot		

*The Specification may be changed without further notice.
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JNF632E Series

Features

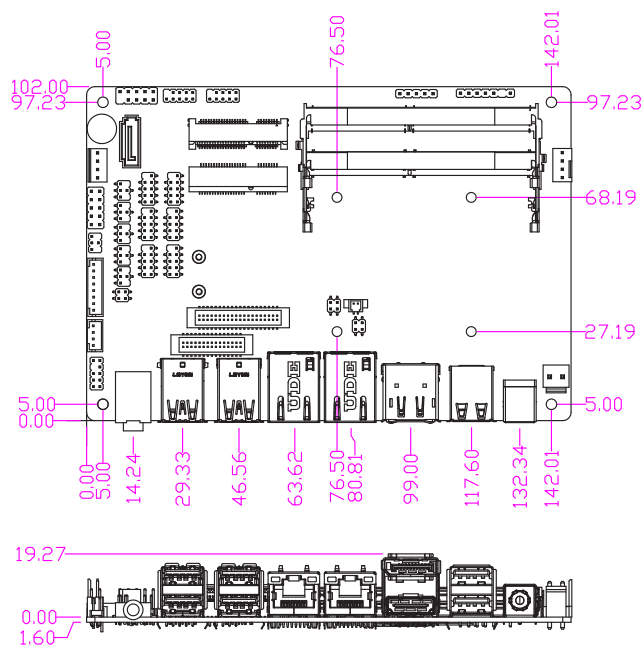


- Support Intel Skylake-U/Kabylake-U Series SoC Processor
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- DP / HDMI / LVDS / eDP, support Triple displays
- 1* Mini PCIe/mSATA, 1* half-size Mini PCIe
- 4* USB3.0, 7* USB2.0, 6* COM
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Skylake-U/Kabylake-U processor	Rear I/O Port	1* DP, 1* HDMI, 2* RJ45, 4* USB3.0,
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB		2* USB2.0, Line-out, 1* DC-in
Ethernet	1* Intel i211AT GbE		
	1* Intel i219LM GbE	Internal I/O Port	1* eDP, 1* LVDS, 5* USB2.0, 6* COM
Graphic	1* HDMI up to 4096x2160@24Hz		(COM1: RS232/422/485), 1* GPIO, 1* PS/2,
	1* DP up to 4096x2304@60Hz		1* Audio header, 1* onboard TPM (option)
	1* Dual CH LVDS up to 1920x1200 @60Hz		
	1* eDP support up to 4096x2304@60Hz		
Storage	1* SATAIII, 1* mSATA (ful size, shared)	WDT	0~255 Sec./Min. programmable
		Power	9~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	2* Mini PCIe (1* full size, 1* half size)	Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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JNF931 Series

Features

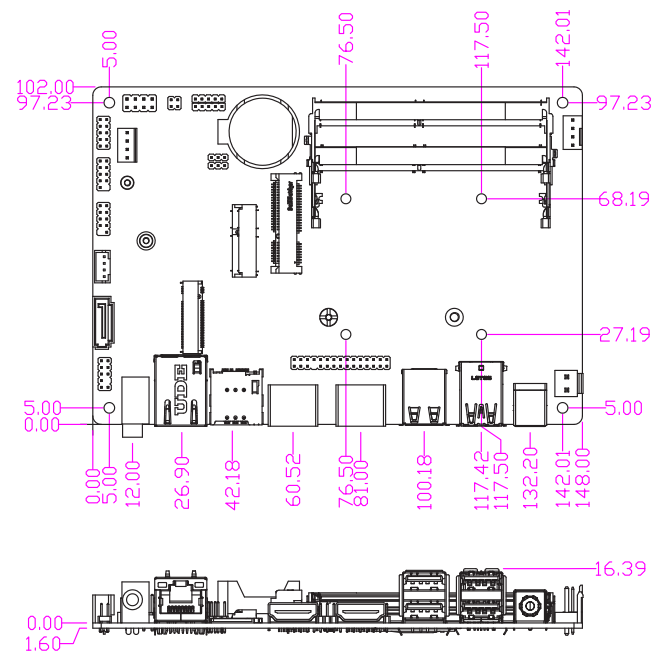


- Intel Gemini Lake / Gemini Lake-R SoC Processor (TDP 10W)
- 2* DDR4 2400MHz SO-DIMM up to 8 GB
- 2* HDMI, 1* eDP support triple display
- 1* COM, 2* USB3.1(Gen.1), 4* USB2.0, 1* GbE
- 1* M.2 M-key (2242/2280) support NVMe, 1* M.2 E-key (2230) support CNVi
- 1* SATAIII, 1* 32GB eMMC (option)
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Gemini Lake Series SoC Processor (TDP 10W)	Rear I/O Port	2* USB3.1 (Gen1), 2* USB2.0, 1* RJ45, 2* HDMI, 1* SIM card holder, Line-out, 1* DC-in
Memory	2* DDR4 2400MHz SO-DIMM up to 8GB		
Ethernet	1* Intel I211-AT GbE		
Graphic	2* HDMI2.0 up to 4096x2160@60Hz 1* eDP up to 4096x2304@60Hz	Internal I/O Port	2* USB2.0, 1* eDP, 1* RS232, 1* GPIO, 1* Audio Header
		WDT	256 segments (10sec ~ 255min)
Storage	1* SATAIII, 1*M.2 M-key (2242/2280 PCIe x2/ SATA interface) support NVMe, 1* eMMC 32GB (option)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* M.2 E-key (2230 PCIe x1 interface) support CNVi, 1* full size Mini-PCIe	Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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MF94 Series

Features

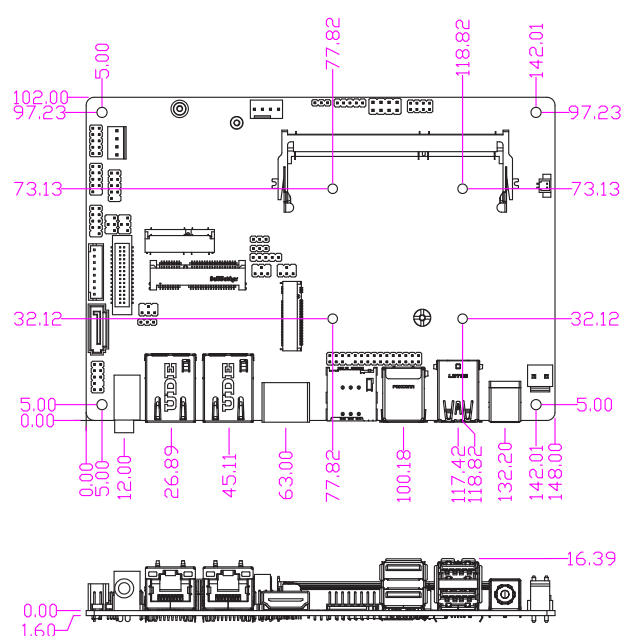


- Intel Apollo Lake SoC Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8 GB
- HDMI / eDP / LVDS, support Triple displays
- 2* COM, 3* USB3.1 (Gen.1), 3* USB2.0, 2* GbE
- 1* M.2 M-key 2242, 1* M.2 B-key 3042
- 1* Full size Mini-PCIe, 1* SATAIII
- Wide Voltage 9~36V DC-in
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake J3455 / E3940 SoC	Rear I/O Port	3* USB3.1 (Gen1), 1* USB2.0, 1* HDMI,
Memory	1* DDR3L 1866MHz non-ECC SO-DIMM up to 8GB		2* RJ45, 1* SIM card holder (w/ M.2 B-key, 3042), Line-Out, 1* DC-in
Ethernet	2* Intel I211-AT GbE	Internal I/O Port	2* USB2.0, 1* eDP, 1* LVDS, 1* RS232,
Graphic	1* HDMI up to 3840×2160@ 30 Hz		1* RS232/422/485, 1* GPIO, 1* Audio
	1* Dual CH LVDS up to 1920×1200@60Hz		header, TPM2.0 onboard (option)
	1* eDP up to 3840×2160@60Hz		
Storage	1* SATAIII,	WDT	256 segments (10sec ~ 255min)
	1* M.2 M-key (2242, SATA interface)	Power	9~36V DC IN
Expansion Slot	1* M.2 B-key (3042), 1* Full size Mini-PCIe	Temperature	MF94-00 Operating: 0°C ~ 60°C
			MF94-90 Operating: -40°C ~ 85°C
			Storage: -40°C ~ 85°C
		Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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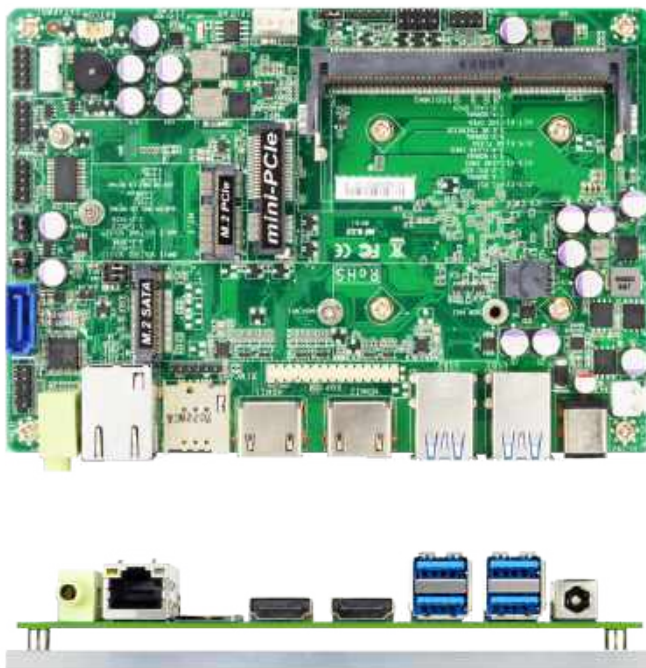
JNF832 Series

Features

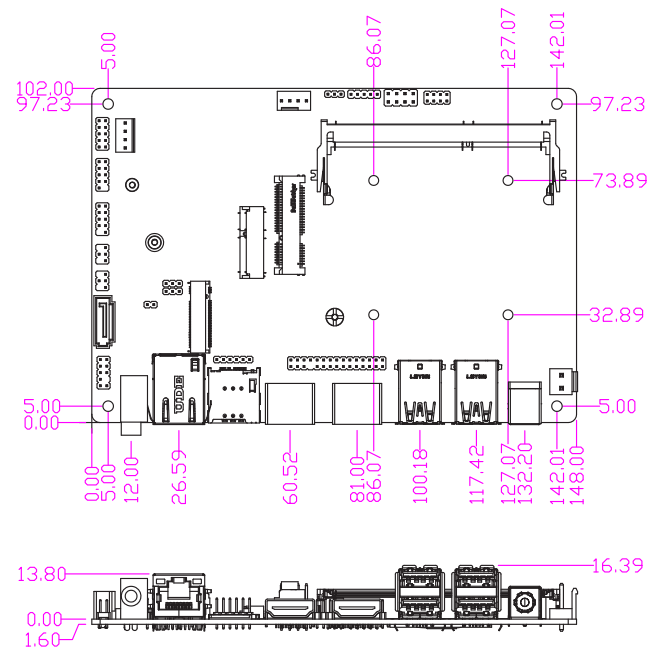


- Support Intel Apollo Lake SoC Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- 2* HDMI, 1* eDP, support Triple displays
- 1* Mini PCIe, 2* M.2 (M-Key 2242/2280, E-Key 2230)
- 4* USB3.0, 2* USB2.0, 1* COM
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake SoC Processor	Rear I/O Port	2* HDMI, 1* RJ45, 4* USB3.0, Line-out, 1* DC-in
Memory	1* DDR3L 1866 SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111H GbE		
Graphic	2* HDMI1.4b up to 3840x2160@30Hz 1* eDP up to 3840x2160@60Hz	Internal I/O Port	1* eDP, 2* USB2.0, 1* GPIO, 1* RS232, 1* SIM card holder, 1* Audio header, TPM2.0 onboard (option)
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAII, 1* M.2 (M-key, 2242/2280, SATA interface)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size) 1* M.2 (E-Key, 2230, PCIe x1 interface)	Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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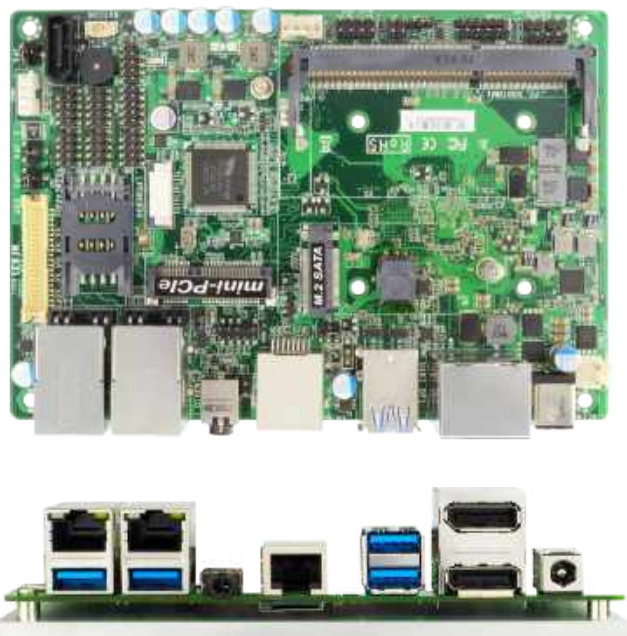
JNF631 Series

Features

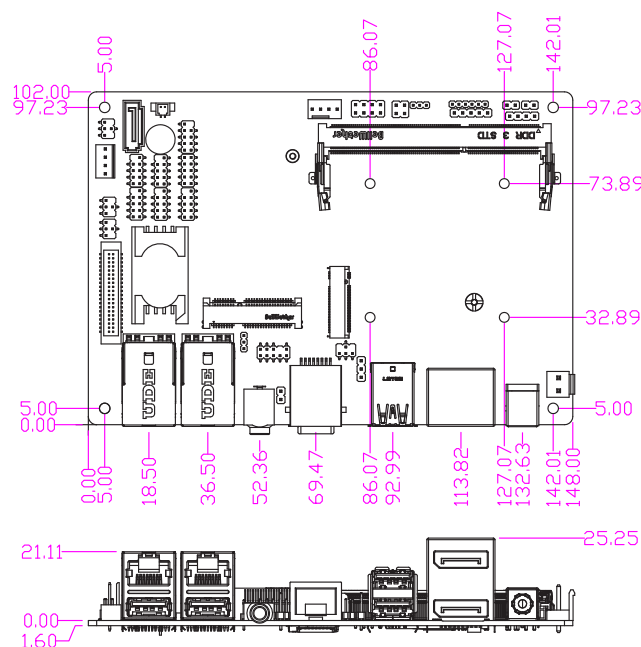


- Support Intel Apollo Lake SoC Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- 2* DP, 1* eDP
- 1* External RS232 (RJ-45 Type), 5* Internal COM (COM2: RS232/422/485)
- 4* USB3.0, 2* USB2.0
- 1* Mini PCIe, 1* M.2 SATA interface
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake processor	Rear I/O Port	2* DP, 2* RJ45, 4* USB 3.0, 1* COM (RJ45 type), 1* Line-out/MIC Combo, 1* DC-in, 1* micor SD card slot
Memory	1* DDR3L 1866MHz SO-DIMM up to 8GB	Internal I/O Port	1* eDP, 2* USB2.0, 5* COM (COM2: RS232/422/485), 1* GPIO, 1* PS/2
Ethernet	2* Intel i211AT GbE		
Graphic	2* DP 1.2 up to 4096x2160@60Hz 1* eDP up to 3840x2160@60Hz		
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAIII, 1* M.2 (M-key 2242, SATA interface)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size), 1* SIM card slot	Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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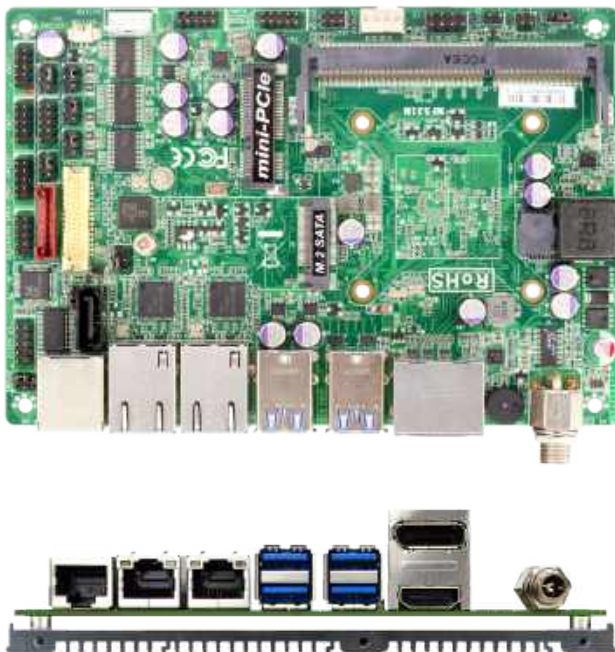
JNF531M-3160

Features

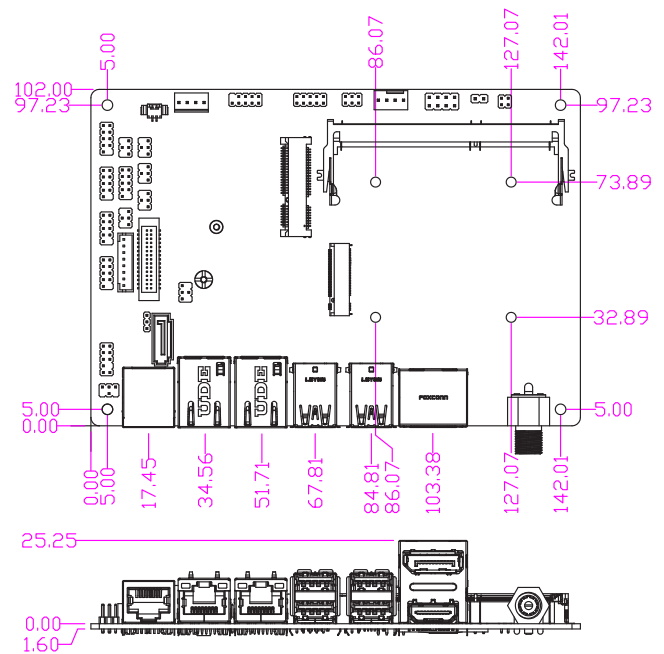


- Support Intel Braswell N3160 SoC Processor
- 1* DDR3L 1600MHz SO-DIMM up to 8GB
- DP / HDMI / LVDS, support Triple displays
- 1* Mini PCIe, 1* M.2 (M-key, 2242)
- 1* External RS232 (RJ45 Type), 5 * Internal COM (COM2: RS232/422/485)
- 4* USB3.0, 2* USB2.0
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Braswell N3160 SoC Processor	Rear I/O Port	1* DP, 1* HDMI, 2* RJ45, 4* USB 3.0, 1* RJ-45 COM, 1* DC-in
Memory	1* DDR3L 1600MHz SO-DIMM up to 8GB		
Ethernet	2* Intel i211AT GbE		
Graphic	1* HDMI1.4b up to 3840x2160@30Hz 1* DP1.2 up to 3840x2160@30Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	1* LVDS, 2* USB 2.0, 1* GPIO, 5* COM (COM2: RS232/422/485), 1* Audio header
Storage	1* SATAIII, 1* M.2 (M-key 2242, SATA interface)	WDT	0-255 Sec./Min. programmable
Expansion Slot	1* Mini PCIe (half size)	Power	9-36V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
		Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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JNF831-2930

Features

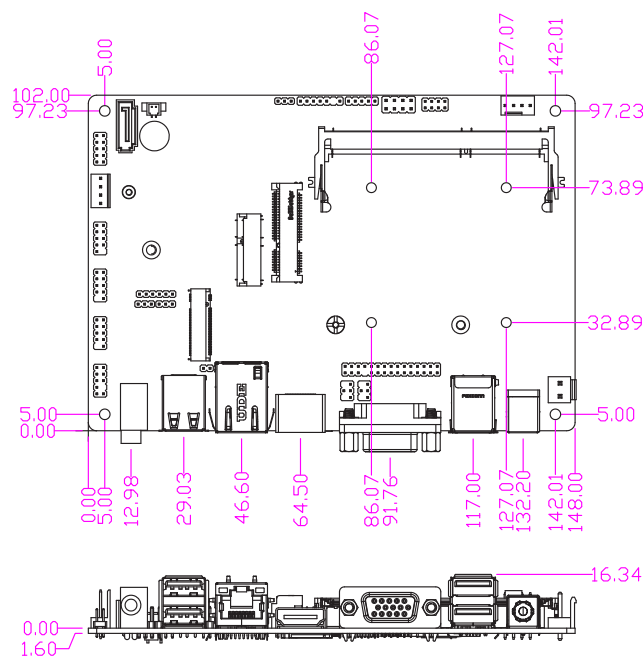


- Support Intel Bay Trail N2930 SoC Processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- HDMI / VGA / eDP, support Dual displays
- 1* Mini PCIe, 2* M.2 (M-Key 2242/2280, E-Key 2230)
- 1* USB3.0, 7* USB2.0, 1* COM
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930 SoC Processor	Rear I/O Port	1* HDMI, 1* VGA, 1* RJ45, 1* USB3.0, 3* USB2.0, Line-out, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111H GbE		
Graphic	1* HDMI1.4a up to 1920x1200@60Hz 1* VGA up to 1920x1200@60Hz 1* eDP up to 2560x1600@60Hz	Internal I/O Port	4* USB2.0, 1* eDP, 1* GPIO, 1* COM, 1* Audio header, 1* SIM card holder
Storage	1* SATAII, 1* M.2 (M-key, 2242/2280, SATA interface)	WDT	0~255 Sec./Min. programmable
Expansion Slot	1* Mini PCIe (full size), 1* M.2 (E-Key, 2230, PCIe x1 interface)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
		Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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JNF533M-1900

Features

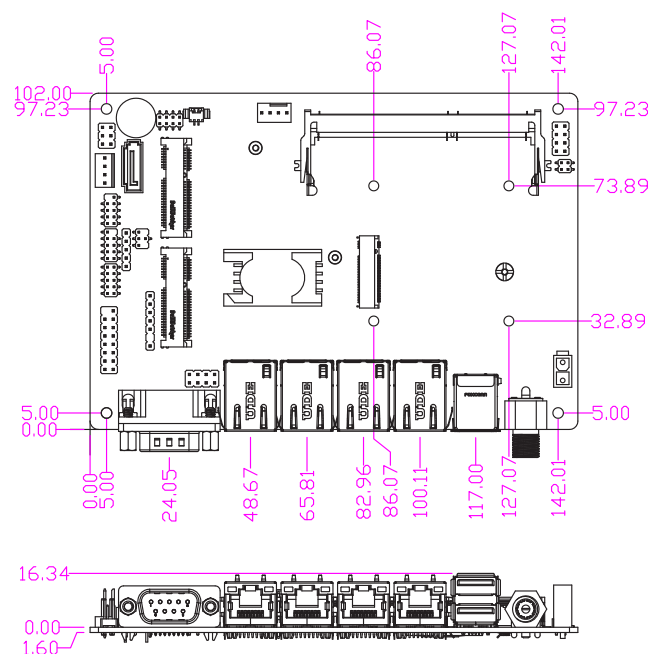


- Support Intel Bay Trail J1900 SoC Processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- 1* full size Mini PCIe, 1* half size Mini PCIe, 1* M.2 (M-key, 2242)
- 1* USB3.0, 3* USB2.0, 2* COM, 4* GbE
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail J1900 SoC Processor	Rear I/O Port	4* RJ45, 1* USB3.0, 1* USB2.0, 1* COM, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	4* Intel i211AT GbE		
Graphic	1* VGA up to 1920x1200@60Hz	Internal I/O Port	2* USB2.0, 1* VGA, 1* GPIO, 1* PS/2, 1* RS232/422/485
			0~255 Sec./Min. programmable
		WDT	12V DC IN
Storage	1* SATAII, 1* M.2 (M-key, 2242, SATA interface)	Power	Operating: 0~60°C w/0.7 m/s air flow
		Temperature	Storage: -20~85°C
Expansion Slot	2* Mini PCIe (1* full size, 1* half size), 1* SIM card slot		148 * 102mm (5.83" * 4.01")
		Dimension	

*The Specification may be changed without further notice.
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JNF532-2930

Features

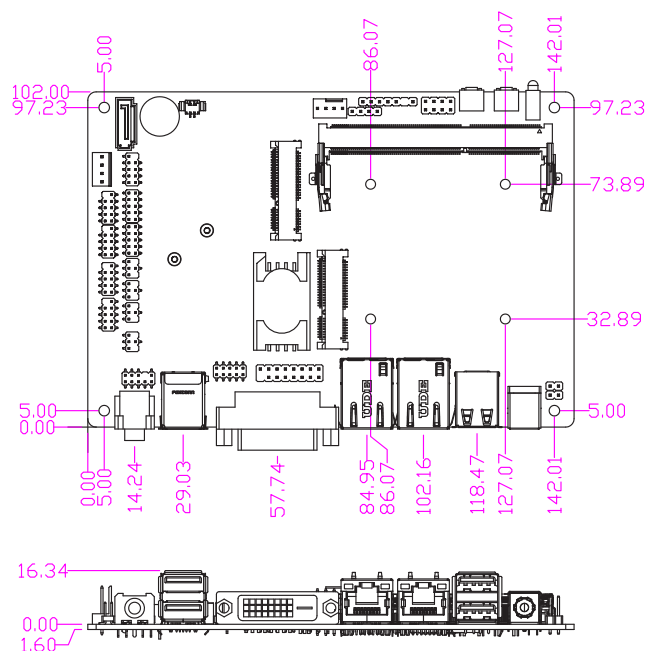


- Support Intel Bay Trail N2930 SoC Processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- DVI-D / VGA, support Dual displays
- 1* Mini PCIe/mSATA, 1* half-size Mini PCIe
- 1* USB3.0, 7* USB2.0, 4* COM
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930 SoC Processor	Rear I/O Port	1* DVI-D, 2* RJ45, 1* USB3.0, 3* USB2.0, Line-out, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	2* Realtek RTL8111G GbE		
Graphic	1* DVI-D up to 1920x1200@60Hz 1* VGA up to 1920x1200@60Hz	Internal I/O Port	4* USB2.0, 1* VGA, 4* COM (COM1: RS232/422/485), 1* GPIO, 1* PS/2, 1* Audio header,
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAII, 1* mSATA (full size, shared)	Power	9~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	2* Mini PCIe (1* full size, 1* half size), 1* SIM card slot	Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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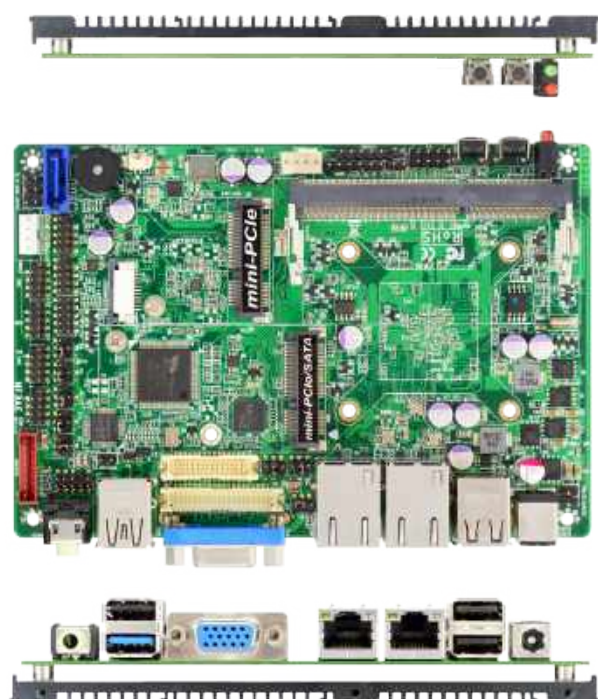
JNF3AE-1900

Features

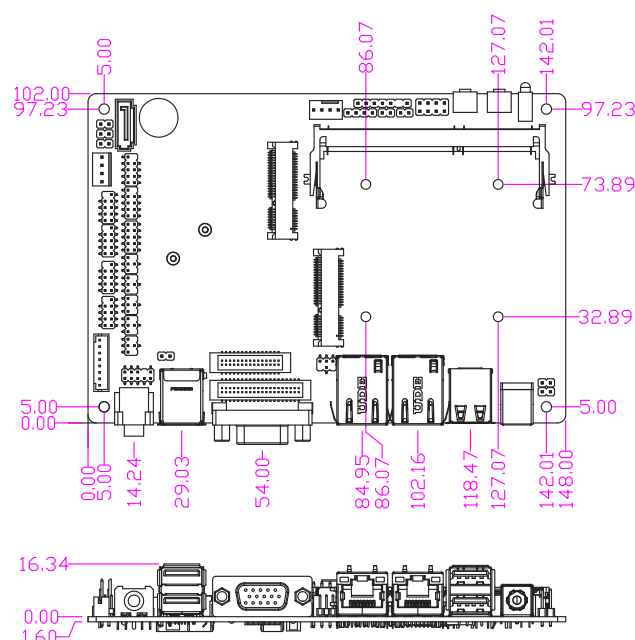


- Support Intel Bay Trail J1900 SoC Processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA / LVDS / eDP, support Dual displays
- 1* Mini PCIe/mSATA, 1* half size Mini PCIe
- 1* USB3.0, 7* USB2.0, 4* COM
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail J1900 SoC Processor	Rear I/O Port	1* VGA, 2* RJ45, 1* USB3.0, 3* USB2.0, Line-out, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	2* Realtek RTL8111G GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz 1* eDP up to 2560x1600@60Hz	Internal I/O Port	4* USB2.0, 1* LVDS, 1* eDP, 1* GPIO, 4* COM (COM1: RS232/422/485), 1* PS/2, 1* Audio header
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAII, 1* mSATA (full size shared with Mini-PCIe)	Power	9~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	2* Mini PCIe (1* full size shared with mSATA, 1*half size)	Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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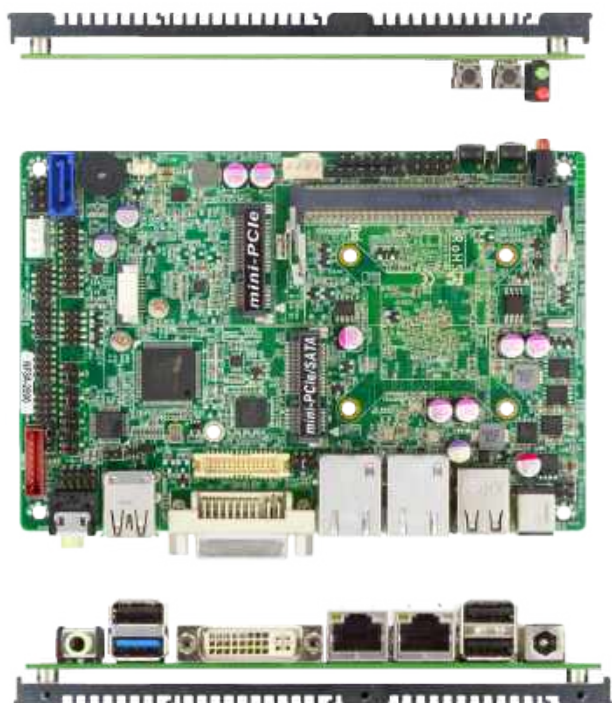
JNF3A-2930

Features

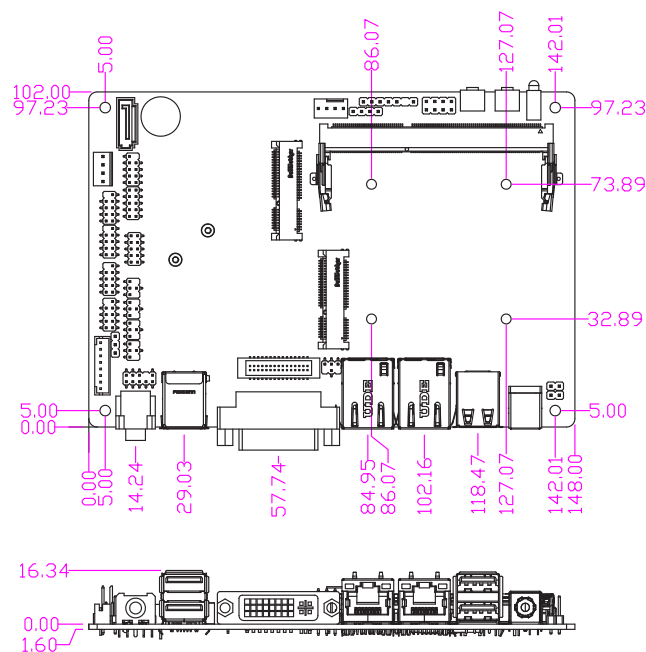


- Support Intel Bay Trail N2930 SoC Processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- DVI-I / LVDS, support Dual displays
- 1* Mini PCIe/mSATA, 1* half-size Mini PCIe
- 1* USB3.0, 7* USB2.0, 4* COM
- 3.5" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930 SoC Processor	Rear I/O Port	1* DVI-I, 2* RJ45, 1* USB3.0, 3* USB2.0, Line-out, 1* DC-in
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	2* Realtek RTL8111G GbE		
Graphic	1* DVI-I up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	4* USB2.0, 1*LVDS, 4* COM (COM1: RS232/422/485), 1* GPIO, 1* PS/2, 1* Audio header
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAII, 1* mSATA (full size, shared)	Power	9~24V DC IN
		Temperature	Operating: -20~70°C w/0.7 m/s air flow Storage: -40~70°C
Expansion Slot	2* Mini PCIe (1* full size, 1* half size)	Dimension	148 * 102mm (5.83" * 4.01")

*The Specification may be changed without further notice.
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MT95-90

Features

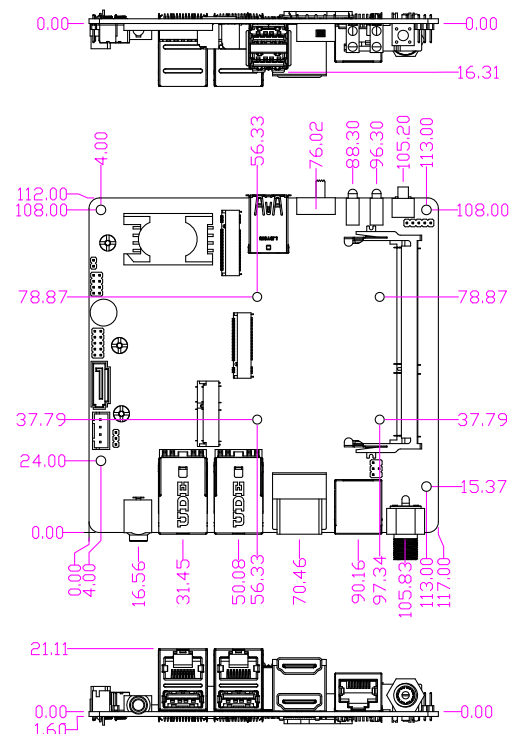


- Intel ApolloLake-I E3940 SoC Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- 2* HDMI
- 1* COM (RJ-45 type), 4* USB3.1 (Gen.1), 2* GbE
- 1* M.2 M-key 2242, 1* M.2 B-key 3042, 1* M.2 E-key 2230, 1* SATAIII
- 12V DC-in
- Support -20°C ~ 85°C wide temperature
- uTX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake-I E3940 SoC Processor (TDP9.5W)	Rear I/O Port	2* HDMI, 2* USB3.1 (Gen.1), 2* RJ45,
Memory	1* DDR3L 1866MHz non-ECC SO-DIMM up to 8GB		1* COM (RJ45), Line-out/MIC, 1* DC-in,
Ethernet	2* Intel i210-IT GbE		1* PWR knob, 2* LAN LED, HDD/PWR LED,
Graphic	2* HDMI up to 3840×2160@ 30 Hz	Internal I/O Port	1* AT/ATX switch, 2* USB3.1 (Gen.1)
			1* GPIO, TPM2.0 onboard (option)
		WDT	256 segments (10sec ~ 255min)
Storage	1* SATAIII, 1* M.2 M-key (2242, SATA interface)	Power	12V DC IN
		Temperature	Operating: -20°C ~ 85°C Storage: -20°C ~ 85°C
Expansion Slot	1* M.2 B-key (3042, USB3.0 interface), 1* M.2 E-key (2230, PCIe x1/USB2.0 interface), 1* SIM card slot	Dimension	112 * 117mm (4.41" * 4.60")

*The Specification may be changed without further notice.
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JNU792C2S-7100U

Features

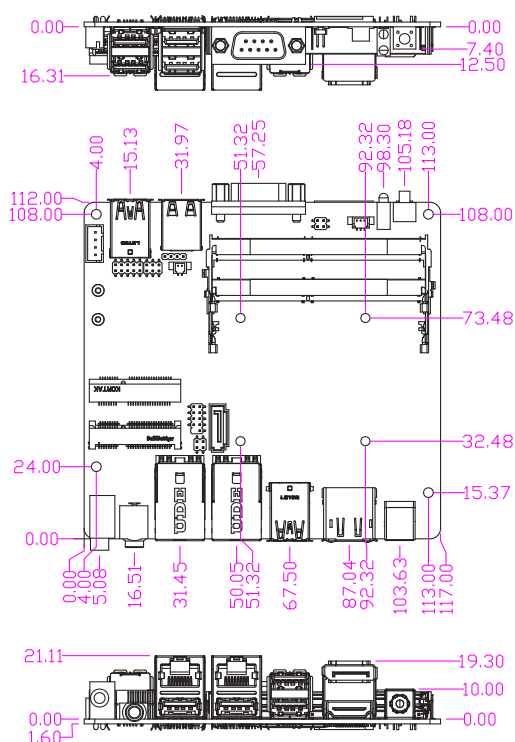


- Support Intel Kabylake Celeron i3-7100U Processor
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- DP / HDMI, support Dual displays
- 1* full size Mini PCIe/mSATA, 1* half size Mini PCIe
- 6* USB 3.0, 5* USB 2.0, 1* COM
- uTX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Kabylake Celeron i3-7100U	Rear I/O Port	1* DP, 1* HDMI, 2* RJ45, 6* USB 3.0, 2* USB2.0, 1* COM, Line-out/MIC, Line-in, 1* DC-in, 1* SIM card holder
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB	Internal I/O Port	3* USB 2.0, 1* GPIO, 1* 3W Speaker, TPM2.0 onboard
Ethernet	1* Intel i211AT GbE 1* Intel i219LM GbE	WDT	0~255 Sec./Min. programmable
Graphic	1* DP up to 4096x2304@60Hz 1* HDMI up to 4096x2160@24Hz	Power	12V DC IN
Storage	1* SATAIII, 1* mSATA (full size, shared w/Mini-Pcie)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	2* Mini PCIe (1* full size shared with mSATA, 1* half size)	Dimension	112 * 117mm (4.41" * 4.60")

*The Specification may be changed without further notice.
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JNU792V2S-3965U

Features

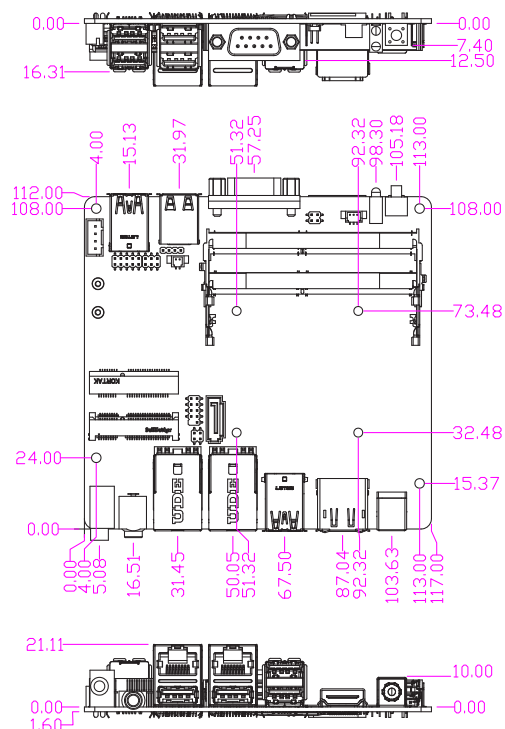


- Support Intel Kabylake Celeron 3965U Processor
- 2* DDR4 2133MHz SO-DIMM up to 32GB
- VGA / HDMI, support Dual displays
- 1* full size Mini PCIe/mSATA, 1* half size Mini PCIe
- 4* USB 3.0, 5* USB 2.0
- uTX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Kabylake Celeron 3965U	Rear I/O Port	1* VGA, 1 *HDMI, 2* RJ45, 4* USB3.0, 4* USB2.0, Line-out/MIC, Line-in, 1* DC-in, 1* SIM card holder
Memory	2* DDR4 2133MHz SO-DIMM up to 32GB	Internal I/O Port	1* USB2.0, 1* GPIO, 1* 3W Speaker, TPM2.0 onboard
Ethernet	1* Intel i211AT GbE		
Graphic	1* Intel i219LM GbE		
	1* VGA up to 1920x1200@60Hz		
	1* HDMI up to 4096x2160@24Hz		
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAIII, 1* mSATA (full size, shared w/Mini-Pcie)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	2* Mini PCIe (1* full size shared w/mSATA, 1* half size)	Dimension	112 * 117mm (4.41" * 4.60")

*The Specification may be changed without further notice.
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JNU95-8265

Features

- Intel® 8th Gen (Whiskey lake-U) and 10th Gen (Comet lake-U) Processor
- 2* DDR4 2400/2133MHz SO-DIMM up to 32GB
- 1* Intel I219LM GbE + 1* Intel® i211AT GbE
- 1* SATAIII , 1* M.2 (M key), 1* M.2 (E key)

Support CNVi

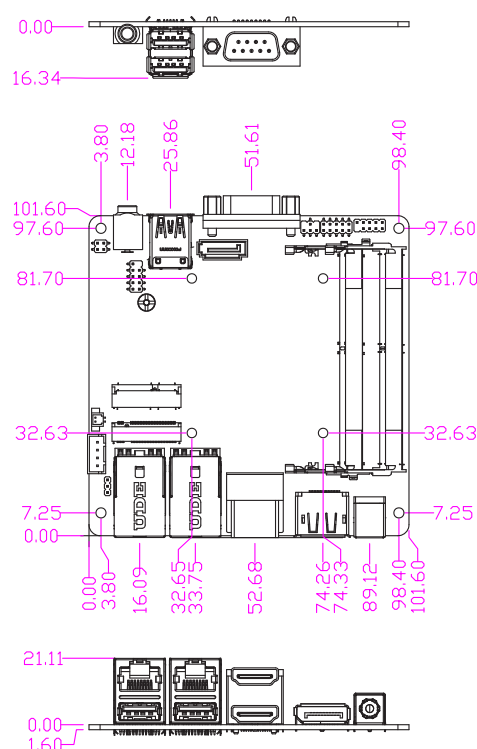
- 2* HDMI / DP, support 3 displays
- 1* RS232/422/485, 4* USB3.1, 2* USB2.0
- 12~24V DC in
- NUC Form Factor



Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Core i5-8265U SoC	Rear I/O Port	2* HDMI, 1* DP, 2* RJ45, 2* USB3.1, 1* DC-
Memory	2* DDR4 2133/2400MHz SO-DIMM up to 32GB		in, Line-out, MIC, 1* RS232/422/485 (5/12V TTL), 2* USB3.1
Ethernet	1* Intel i211AT GbE	Internal I/O Port	2* USB2.0, 1* GPIO
	1* Intel i219LM GbE		
Graphic	1* HDMI1.4 up to 4096x2304@30Hz		
	1* HDMI2.0 up to 4096x2304@60Hz		
	1* DP up to 4096x2304@60Hz		
		WDT	256 segments (10sec ~ 255min)
Storage	1* SATAIII, 1* M.2 M-key (2242) support SATA interface	Power	12~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* M.2 E-key (2230) support CNVi	Dimension	101 * 101mm (3.98" * 3.98")

*The Specification may be changed without further notice.
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JNU691 Series

Features

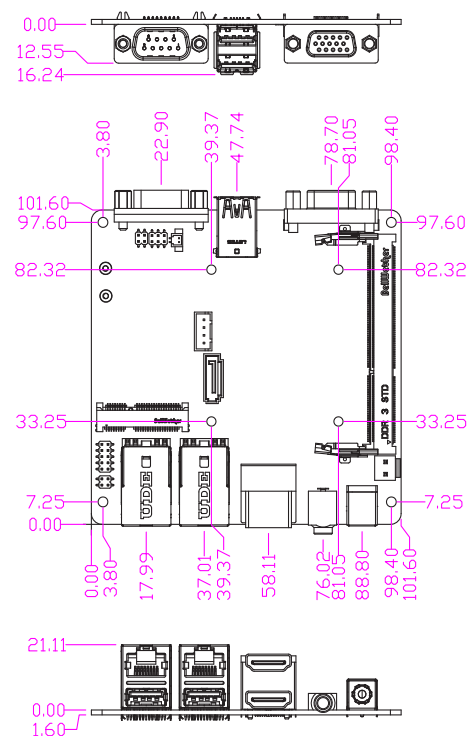


- Support Intel Apollo Lake SoC Processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- 2* HDMI, 1* VGA, support Triple displays
- 1* full size mSATA, 1* half size Mini PCIe
- 4* USB 3.0, 2* USB 2.0, 1* COM
- NUC Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Apollo Lake SoC (N3350/J3455)	Rear I/O Port	2* RJ45, 2* USB 3.0, 2* HDMI, 1* Line-out/ MIC Combo, 1* DC-in, 2* USB 3.0, 1* VGA, 1* RS232/422/485
Memory	1* DDR3L 1600/1866MHz SO-DIMM up to 8GB	Internal I/O Port	2* USB2.0, 1* Onboard TPM 2.0, 1* GPIO
Ethernet	2* Realtek RTL8111H GbE	WDT	0~255 Sec./Min. programmable
Graphic	2* HDMI1.4b up to 3840x2160@30Hz 1* VGA up to 1920x1200@60Hz	Power	12V DC IN
Storage	1* SATAIII, 1* mSATA (full size shared with Mini-PCIe)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	2* Mini PCIe (1* full size shared with mSATA, 1* half size), 1* SIM card slot	Dimension	101 * 101mm (3.98" * 3.98")

*The Specification may be changed without further notice.
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JNU591-3160

Features

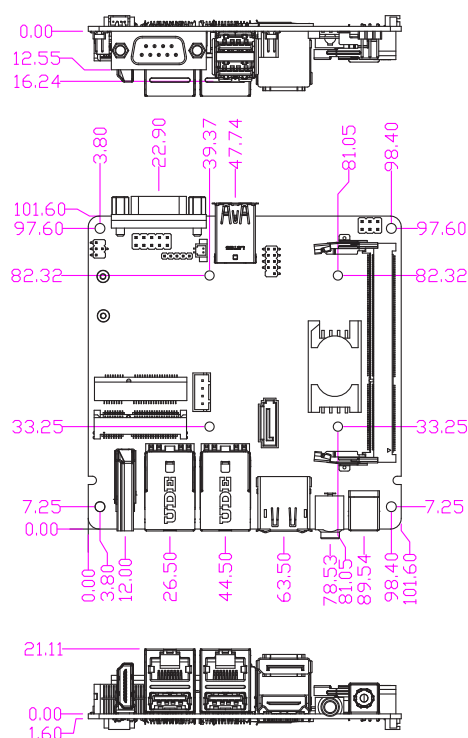


- Support Intel Braswell N3160 SoC processor
- 1* DDR3L 1866MHz SO-DIMM up to 8GB
- 2* HDMI, 1* DP, support Triple displays
- 1* Mini PCIe/mSATA, 1* half-size Mini PCIe
- 4* USB3.0, 2* USB2.0, 1* COM
- NUC Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Braswell N3160 SoC Processor	Rear I/O Port	2* HDMI, 2* USB 3.0, 2* RJ45, 1* DP, 1* Line-out/MIC combo, 1* DC-in, 2* USB 3.0, 1* RS232/422/485
Memory	1* DDR3L 1600MHz SO-DIMM up to 8GB	Internal I/O Port	2* USB2.0, 1* GPIO
Ethernet	2* Intel i211AT GbE	WDT	0~255 Sec./Min. programmable
Graphic	2* HDMI supports up to 3840x2160@30Hz 1* DP support up to 3840x2160@30Hz	Power	12V DC IN
Storage	1* SATAIII, 1* mSATA (full size, shared)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	2* Mini PCIe (1* full size, 1* half size)	Dimension	101 * 101mm (3.98" * 3.98")

*The Specification may be changed without further notice.
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JNU93-2930

Features

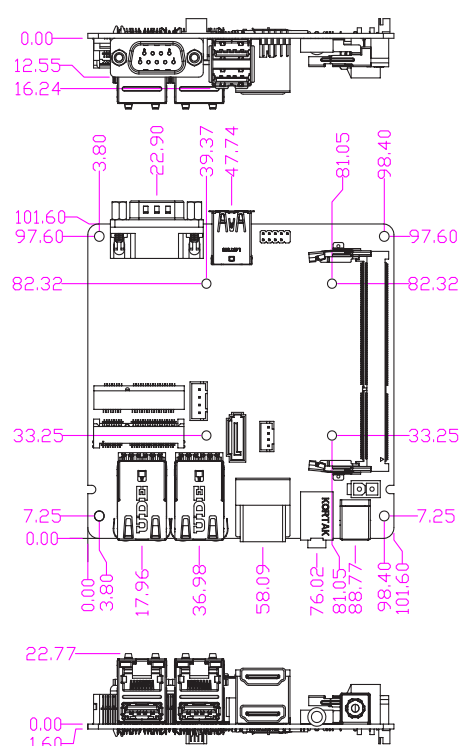


- Support Intel Bay Trail N2930 SoC processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- 2* HDMI, support Dual displays
- 1* mSATA, 1* half-size Mini PCIe
- 1* USB3.0, 5* USB2.0, 1* COM
- NUC Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930 SoC Processor	Rear I/O Port	3* USB 2.0, 1* USB3.0, 2* RJ45, 2* HDMI, 1* Line-out, 1* DC-in, 1* RS232/422/485
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		
Ethernet	2* Intel i211AT GbE		
Graphic	2* HDMI up to 1920x1200@60Hz	Internal I/O Port	2* USB2.0, 1* 3W Amplifier
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAII, 1* mSATA (full size)	Power	9~24V DC IN
		Temperature	Operating: -20~60°C w/0.7 m/s air flow Storage: -40~70°C
Expansion Slot	1* Mini PCIe (half size)	Dimension	101 * 101mm (3.98" * 3.98")

*The Specification may be changed without further notice.
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JNU91-2930

Features

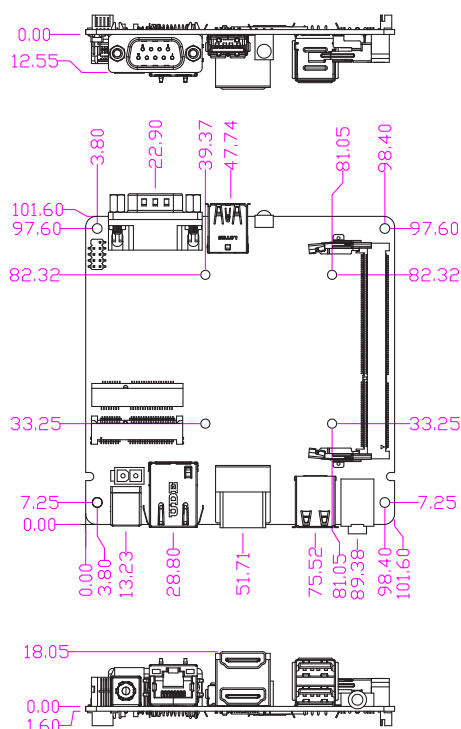


- Support Intel Bay Trail N2930 SoC processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- 2* HDMI, support Dual displays
- 1* mSATA, 1* half-size Mini PCIe
- 1* USB3.0, 2* USB2.0, 2* COM
- NUC Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930 SoC Processor	Rear I/O Port	2* USB 2.0, 2* HDMI, 1* GbE, 1* Line-out,
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		1* DC-in, 1* COM, 1* USB 3.0
Ethernet	1* Intel 82574L GbE	Internal I/O Port	1* COM
Graphic	2* HDMI up to 1920x1200@60Hz		
		WDT	0~255 Sec./Min. programmable
Storage	1* mSATA	Power	9~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (half size)	Dimension	101 * 101mm (3.98" * 3.98")

*The Specification may be changed without further notice.
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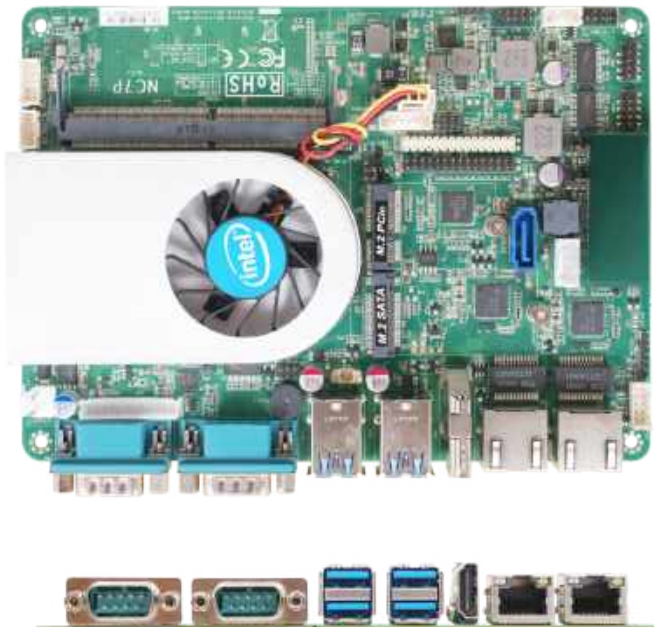
JNC7P-E7100

Features

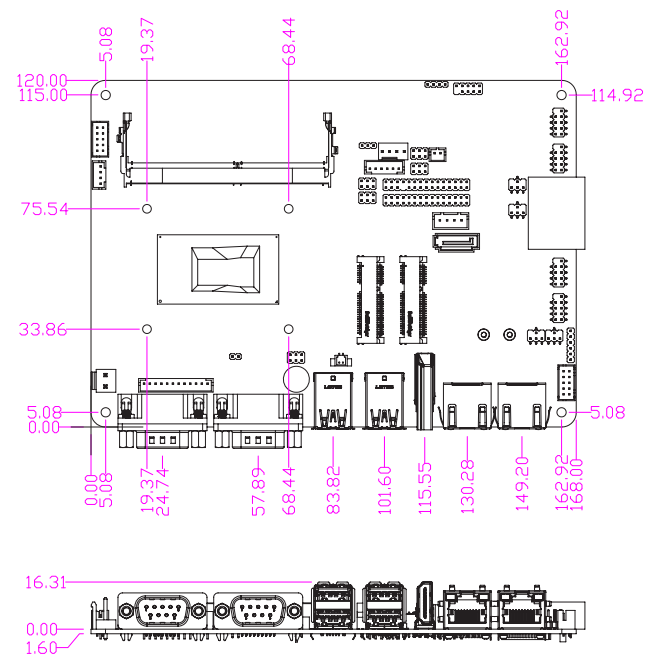


- Intel Kaby Lake-7100U SoC (Co-lay I3/I5/I7 Series), Onboard Intel 7100U 2.4GHz Dual Cores CPU
- 1* DDR4 2133MHz SO-DIMM up to 16GB
- 1* M.2 E key (2230), 1* M.2 M key (2242)
- 2* GbE, 4* USB3.0, 3* USB2.0, 4* COM (COM1/2: RS232/422/485)
- VGA / HDMI / LVDS (Co-lay eDP)
- Onboard 9~24V DC-in
- EPIC Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Kaby Lake-i3 7100U	Rear I/O Port	1* HDMI, 2* RJ45, 4* USB 3.0, 2* RS232/422/485
Memory	1* DDR4 2133MHz SO-DIMM up to 16GB		
Ethernet	2* Intel i211AT GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1080@60Hz 1* eDP 1.3 up to 4096x2304@60Hz 1* HDMI1.4 up to 4096x2304@24Hz	Internal I/O Port	3* USB 2.0, 1* LVDS, 1* eDP (Co-lay LVDS, Option), 1* VGA, 2* RS232, 1* GPIO, 1* Audio Header
Storage	1* SATAIII, 1* M.2 M-key (2242) SATA interface	WDT	256 segments (0 ~ 255sec)
		Power	9~24V DC IN (2-pin PWR Con)
		Temperature	Operating: -10~60°C Storage: -20~70°C
Expansion Slot	1* M.2 E-key 2230 PCIe interface Optional PCIe x4	Dimension	120 * 168mm (4.72" * 6.61")

*The Specification may be changed without further notice.
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JNLBT-IE1900

Features

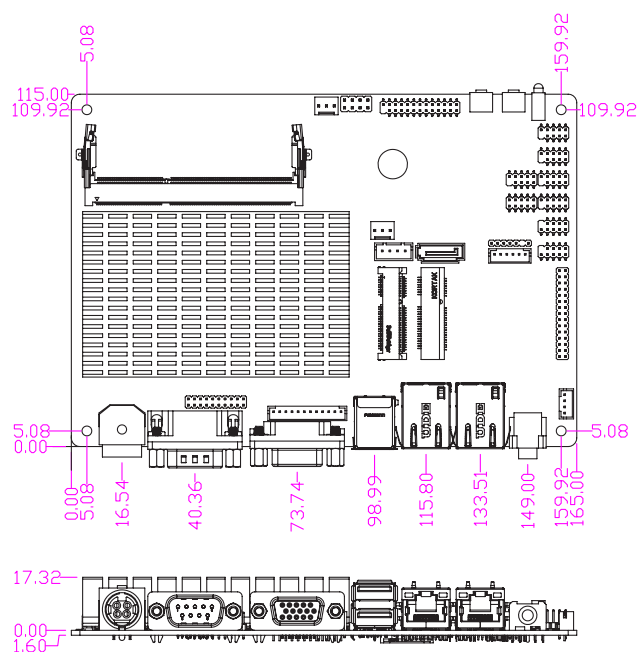


- Support Intel Quad Core J1900 processor
- 1* DDR3L 1333MHz SO-DIMM up to 8GB
- VGA / HDMI1.4a / LVDS
- 1* half-size Mini PCIe
- 1* USB3.0, 5* USB2.0, 6* COM
- EPIC Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail J1900	Rear I/O Port	1* VGA, 2* RJ45, 1* USB3.0, 1* USB2.0,
Memory	1* DDR3L 1333MHz SO-DIMM up to 8GB		1* COM, Line-out, 1* DC-in
Ethernet	2* Intel i211AT GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI1.4a up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	1* HDMI, 1* VGA, 1* LVDS, 5* COM (COM2/3: RS232/422/485), 1* parallel, 4* USB2.0, 1* GPIO, 1* SIM card holder
Storage	1* SATAII, 1* mSATA	WDT	0~255 Sec./Min. programmable
		Power	9~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (half size)	Dimension	165 * 115mm (6.49" * 4.53")

*The Specification may be changed without further notice.
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JNLBT-IE2930-4G

Features

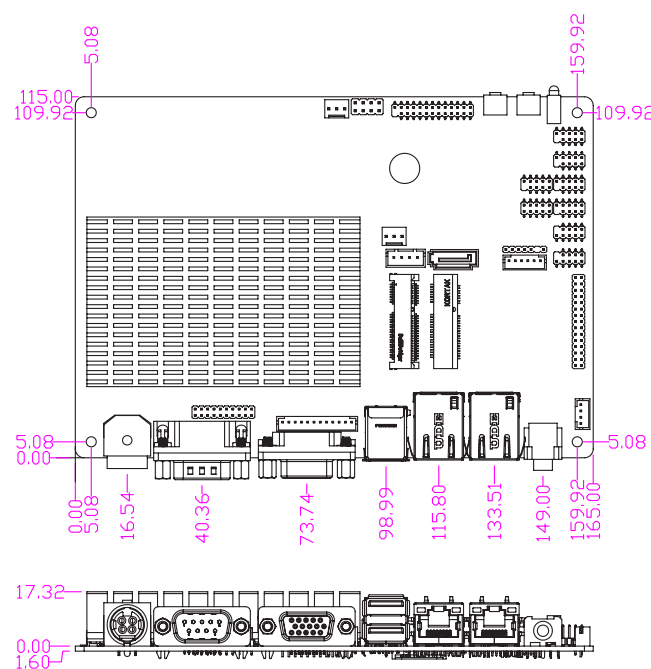


- Support Intel Quad Core N2930 processor
- Onboard 4GB DDR3L 1333MHz DRAM
- VGA / HDMI1.4a / LVDS
- 1* Mini PCIe (half-size)
- 1* USB3.0, 5* USB2.0, 6* COM
- EPIC Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2930	Rear I/O Port	1* VGA, 2* RJ45, 1* USB3.0, 1* COM, 1* USB2.0, Line-out, 1* DC-in
Memory	Onboard 4GB DDR3L 1333MHz DRAM		
Ethernet	2* Intel i211AT GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI1.4a up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	1* HDMI, 1* VGA, 1* LVDS, 5* COM (COM2/3: RS232/422/485), 4* USB2.0, 1* parallel, 1* GPIO, 1* SIM card holder
Storage	1* SATAII, 1* mSATA	WDT	0~255 Sec./Min. programmable
		Power	9~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (half size)	Dimension	165 * 115mm (6.49" * 4.53")

*The Specification may be changed without further notice.
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JNC7B-E7200

Features

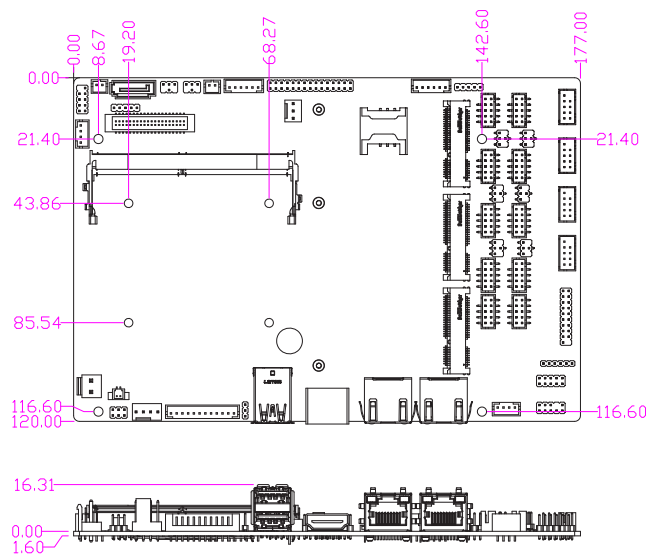


- Support Intel Skylake i5-7200U processor
- 1* DDR4 2133MHz SO-DIMM up to 16GB
- VGA / LVDS / eDP
- 2* full size Mini PCIe, 1* mSATA
- 4* USB3.0, 8* USB2.0, 10* COM
- 5.25" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Skylake i5-7200U	Rear I/O Port	2* USB3.0, 1* HDMI, 2* GbE
Memory	1 * DDR4 2133MHz SO-DIMM up to 16GB		
Ethernet	1* Intel i211AT GbE		
	1* Intel i219LM GbE	Internal I/O Port	1* VGA, 1* LVDS, 1* eDP, 2* USB3.0,
Graphic	1* VGA up to 1920x1200@60Hz		8* USB2.0, 10* COM, 1* Audio header,
	1* Dual CH LVDS up to 1920x1200@60Hz		2* SIM card holder
	1* eDP up to 4096x2304@60Hz		
	1 * HDMI up to 4096x2304@24Hz		
Storage	1* SATAIII, 1* mSATA	WDT	0~255 Sec./Min. programmable
		Power	12~24V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	2* Mini PCIe (full-size)	Dimension	120 * 177mm (4.72" * 6.97")

*The Specification may be changed without further notice.
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JNF711-2807

Features

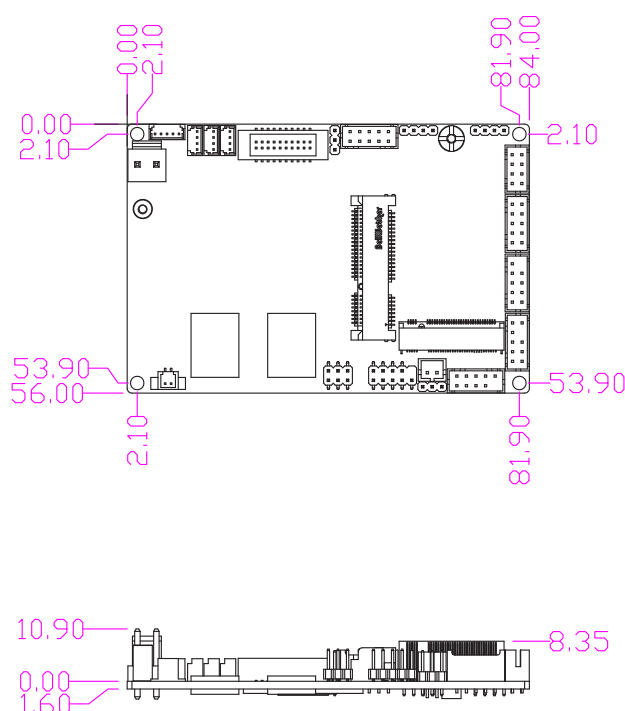


- Support Intel Bay Trail N2807 SoC Processor
- Onboard 2GB DDR3L 1333MHz SDRAM
- VGA / eDP, support Dual displays
- 1* M.2, 1* full size Mini PCIe (shared with mSATA)
- 1* USB3.0, 2* USB2.0, 2* COM
- 1.8" Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail N2807 SoC Processor	Rear I/O Port	N/A
Memory	Onboard 2GB DDR3L 1333MHz SDRAM		
Ethernet	1* Intel i211AT GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* eDP up to 2560x1600@60Hz	Internal I/O Port	1* VGA, 1* eDP, 1* USB3.0, 2* USB2.0, 1* RJ45, 1* GPIO, 2* COM (COM1: RS232/422/485), 1* Audio header
		WDT	0~255 Sec./Min. programmable
Storage	1* M.2 (M key 2242, SATA interface), 1* mSATA (full size, Shared with Mini PCIe)	Power	5V DC IN
		Temperature	Operating: -20~60°C w/0.7 m/s air flow Storage: -40~70°C
Expansion Slot	1* Mini PCIe (full size)	Dimension	84 * 55mm (3.31" * 2.17")

*The Specification may be changed without further notice.
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JNP891G32 Series

Features

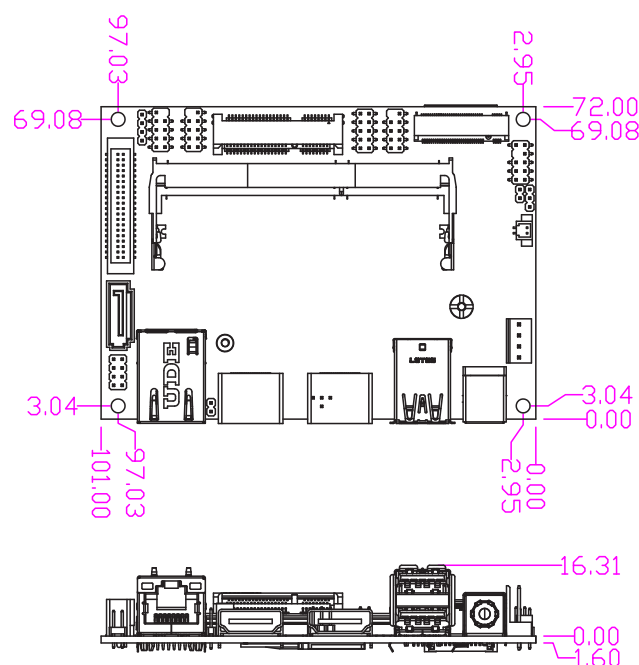


- Support Intel Gemini Lake/Gemini Lake-R J4105/J4125 Processor
- 1* DDR4 2400MHz SO-DIMM up to 8GB
- HDMI1.4b / eDP, support Triple displays
- 1* M.2 M-key, 1* full size Mini PCIe
- 2* USB 3.0, 2* USB 2.0, 1* COM
- PICO Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Gemini Lake/Gemini Lake-R J4105/J4125	Rear I/O Port	2* HDMI, 1* RJ45, 2* USB3.0, 1* Micro SIM card holder, 1* DC-in
Memory	1* DDR4 2400MHz SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111H GbE	Internal I/O Port	1* eDP, 2* USB2.0, 1* GPIO, 1* COM, 1* Audio header
Graphic	2* HDMI up to 4096x2160@60Hz 1* eDP up to 4096x2304@60Hz		
Storage	1* SATAIII, 1* M.2 (M key 2242), 32GB eMMC onboard	WDT	0~255 Sec./Min. programmable
Expansion Slot	1* Mini PCIe (full size)	Power	12V DC IN
		Temperature	Operating: 0~50°C w/0.7 m/s air flow Storage: -20~85°C
		Dimension	100 * 72mm (3.94" * 2.83")

*The Specification may be changed without further notice.
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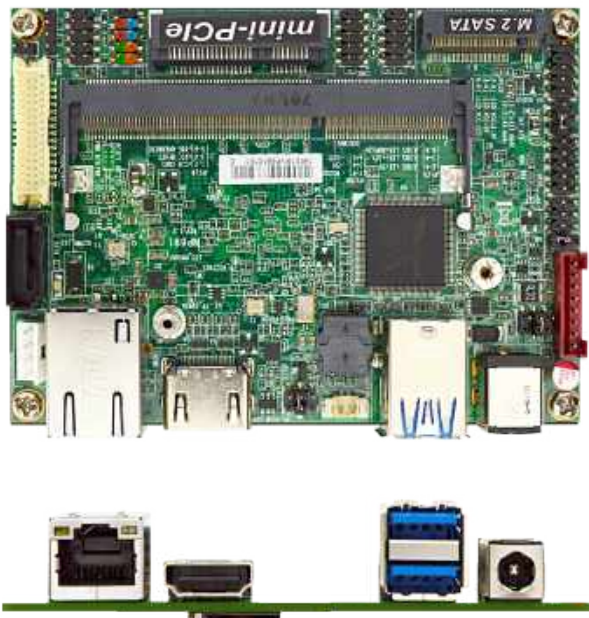
JNP691 Series

Features

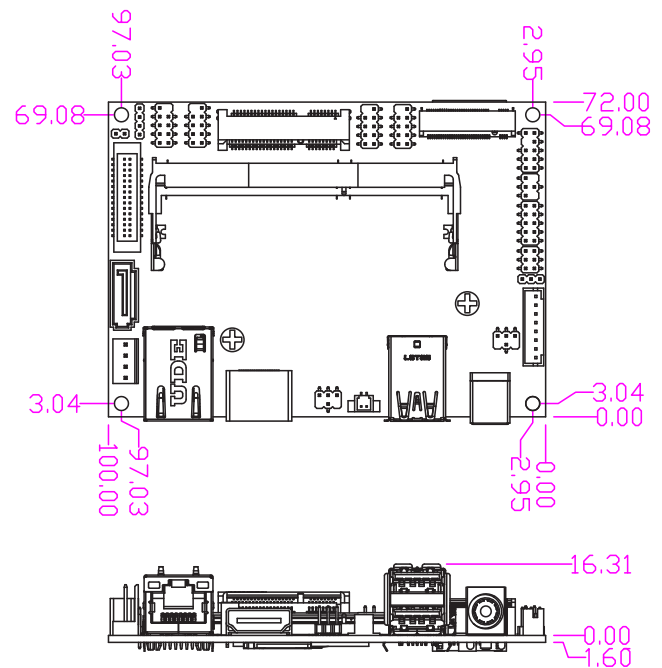


- Support Intel ApolloLake SoC Processor
- 1* DDR3L 1866MHz SO-DIMM support up to 8GB
- HDMI1.4b / LVDS, support Dual displays
- 1* M.2, 1* full size Mini PCIe
- 2* USB3.0, 2* USB2.0, 2* COM
- PICO Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel ApolloLake SoC Processor	Rear I/O Port	1* HDMI, 1* RJ45, 2* USB3.0, 1* SIM card holder, 1* DC-in
Memory	1* DDR3L 1600/1866MHz SO-DIMM up to 8GB		
Ethernet	1* Realtek RTL8111H GbE		
Graphic	1* HDMI1.4b up to 3840x2160@30Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	1* LVDS, 2* USB2.0, 1* GPIO, 2* COM (COM1: RS232/422/485), 1* Audio header
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAIII, 1* M.2 (M key 2242, SATA interface)	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size)	Dimension	100 * 72mm (3.94" * 2.83")

*The Specification may be changed without further notice.
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JNP793D2-3160

Features

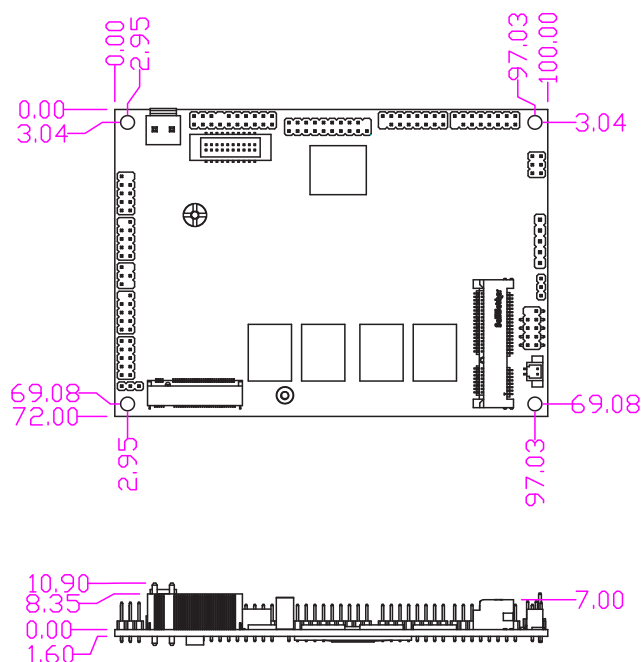


- Support Intel Braswell N3160 SoC Processor
- Onboard 2GB DDR3L 1600MHz SDRAM
- HDMI / eDP, support Dual displays
- 1* M.2, 1* full size Mini PCIe
- 2* USB3.0, 2* USB2.0, 2* COM, 2* GbE
- PICO Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Braswell N3160 SoC Processor	Rear I/O Port	N/A
Memory	Onboard 2GB DDR3L 1600MHz SDRAM		
Ethernet	2* Intel i211AT GbE		
Graphic	1* HDMI1.4b up to 3840x2160@30Hz 1* eDP up to 4096x2304@60Hz	Internal I/O Port	1* HDMI, 1* eDP, 2* USB 3.0, 2* USB 2.0, 2* RJ45, 1* GPIO, 2* COM (COM1: RS232/422/485)
		WDT	0~255 Sec./Min. programmable
Storage	1* M.2 (M key 2242, SATA interface), 1* 32GB eMMC	Power	12V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* Mini PCIe (full size)	Dimension	100 * 72mm (3.94" * 2.83")

*The Specification may be changed without further notice.
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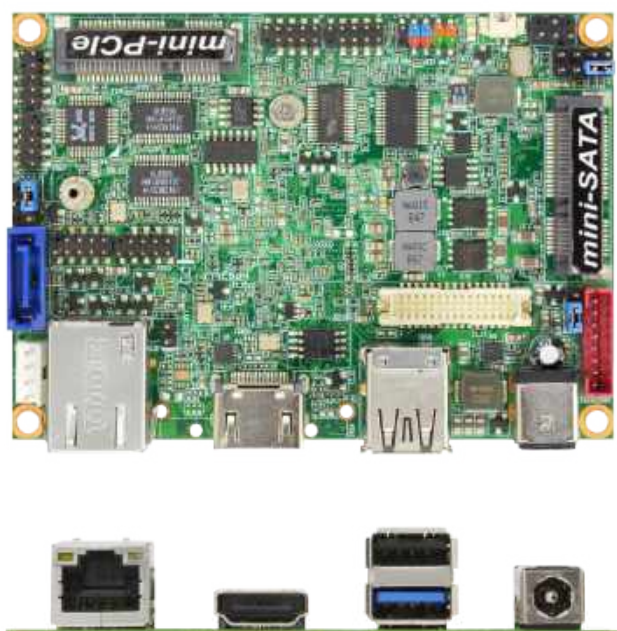
JNP93 Series

Features

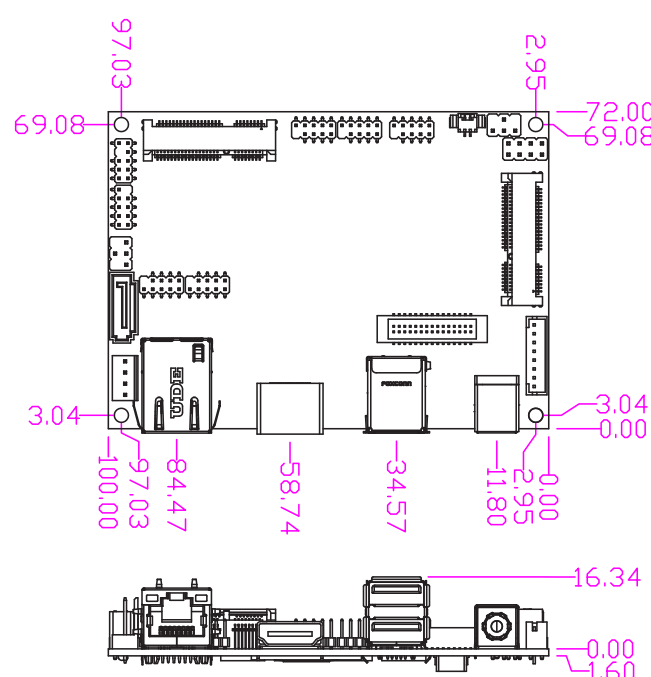


- Support Intel Bay Trail N2930/N2807 (default N2930) SoC Processor
- Onboard 2GB DDR3L 1333MHz SDRAM
- HDMI / LVDS, support Dual displays
- 1* mSATA, 1* half size Mini PCIe
- 1* USB3.0, 7* USB2.0, 2* COM
- PICO Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Bay Trail Series (default N2930) SoC Processor	Rear I/O Port	1* HDMI, 1* RJ45, 1* USB3.0, 1* USB2.0, 1* DC-in
Memory	Onboard 2GB DDR3L 1333MHz SDRAM		
Ethernet	1* Realtek RTL8111G GbE		
Graphic	1* HDMI1.4a up to 1920x1200@60Hz 1* Dual CH LVDS up to 1920x1200@60Hz	Internal I/O Port	1* LVDS, 6* USB2.0, 2* COM (COM1: RS232/422/485), 1* Audio header
		WDT	0~255 Sec./Min. programmable
Storage	1* SATAII, 1* mSATA(full size)	Power	12V DC IN
		Temperature	Operating: -20~60°C w/0.7 m/s air flow Storage: -40~70°C
Expansion Slot	1* Mini PCIe (half size)	Dimension	100 * 72mm (3.94" * 2.83")

*The Specification may be changed without further notice.
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JLM-0A1

Features

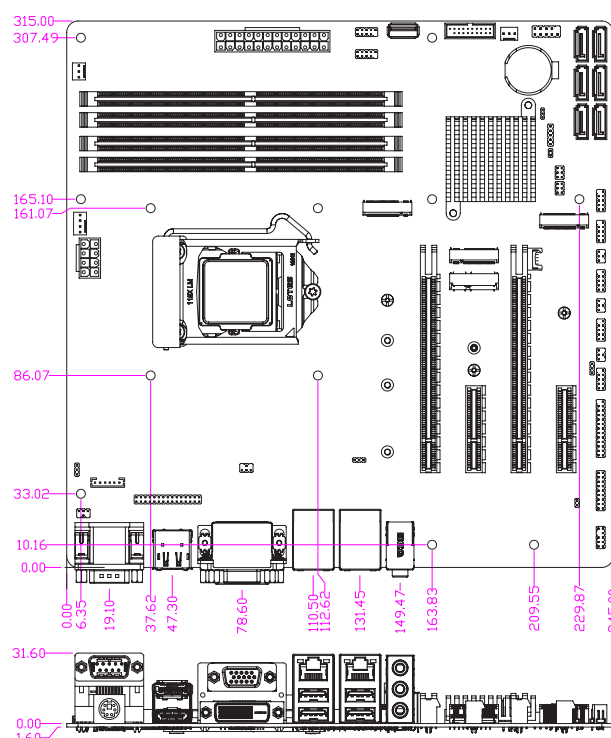


- Intel LGA1151 Socket supports 9th/8th Gen. Core Processor (Max 95W), Intel Q370 Chip
- 4* DDR4 2666/2400/2133MHz up to 128GB
- 6* SATAIII, 2* M.2 (M key), 1* M.2 (E key), 2* PCI-E x16, 2* PCI-E x4
- VGA/DVI-D/HDMI/DP/LVDS, 3 displays
- 2* RS232/422/485 (COM1/2), 4* RS232, 4*USB3.1, 2*USB3.0, 5*USB2.0, 2* GbE
- ATX Power Input
- Micro ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel LGA1151 Socket Processor with Q370	Rear I/O Port	1* VGA, 1* DVI-D, 1* HDMI, 1* DP, 2* RJ45, 4* USB3.1, Line-in, Line-out, MIC, 1* RS232/422/485 (5/12V TTL), 1* PS/2
Memory	4* Long DIMM DDR4 2666/2400/2133 MHz DRAM up to 128GB	Internal I/O Port	1* USB 3.1(Gen.1), 6* USB 2.0 (1*Erect), 1* LVDS/VGA (Option), 5* COM (COM2/3/4: 5/12V TTL), 1* Parallel, 1* GPIO, 1* Audio Header, 1* TPM2.0 (Option)
Ethernet	1* Intel i219-V GbE	WDT	256 segments (10sec ~ 255min)
Graphic	1* Intel i210AT GbE	Power	24pin ATX + 8pin 12V
	1* VGA up to 1920×1200@60Hz (Co-lay LVDS)	Temperature	Operating: 0~60°C
	1* LVDS up to 1920×1200@60Hz (Option)		Storage: -20~85°C
	1* HDMI1.4 up to 4096×2304@24Hz		
	1* DVI-D up to 4096×2304@24Hz		
	1* DP up to 4096×2304@60Hz		
Storage	6* SATAIII (SATA6 co-lay M.2 2242), 1* M.2 M-key 2242 SATA interface (co-lay SATA6), 1* M.2 M-key 2242/2280/22110	Dimension	244 * 244mm (10" * 10")
Expansion Slot	2* PCIe x16, 2* PCIe x4, 1* M.2 (E-key 2230), 1* M.2 (B key, 3042/3052), 1* SIM (Nano)		

*The Specification may be changed without further notice.
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JLM-0A2

Features

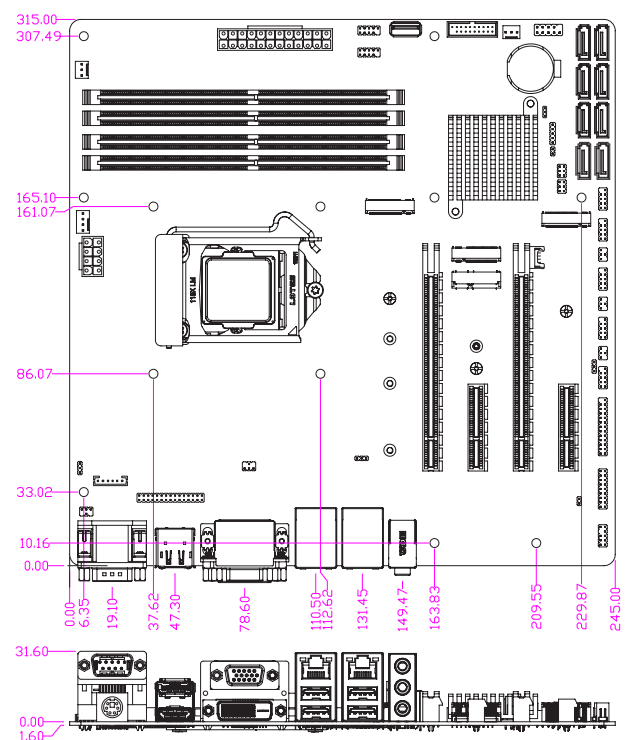


- Intel LGA1151 Socket supports 9th/8th Gen. Core Processor (Max 95W), Intel C246 Chip
- 4* DDR4 2666/2400/2133MHz up to 128GB
- 8* SATAIII, 2* M.2 (M key), 1* M.2 (E key), 2* PCI-E x16, 2* PCI-E x4
- VGA/DVI-D/HDMI/DP/LVDS, 3 displays
- 2* RS232/422/485, 4* RS232, 2* GbE, 4* USB3.1, 2* USB3.0, 5* USB2.0
- ATX Power Input
- Micro ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel LGA1151 Socket Processor with C246	Rear I/O Port	1* VGA, 1* DVI-D, 1* HDMI, 1* DP, 2* RJ45, 4* USB3.1, Line-in, Line-out, MIC, 1* RS232/422/485 (5/12V TTL), 1* PS/2
Memory	4* Long DIMM DDR4 2666/2400/2133MHz DRAM up to 128GB	Internal I/O Port	1* USB 3.1(Gen.1), 6* USB 2.0 (1* Erect), 1* LVDS/VGA (Option), 1* RS232/422/485, 4* RS232 (COM2/3/4: 5/12V TTL), 1* Parallel, 1* GPIO, 1* Audio Header, 1* TPM2.0 (Option)
Ethernet	1* Intel i219-V GbE	WDT	256 segments (10sec ~ 255min)
Graphic	1* Intel i210AT GbE 1* VGA up to 1920×1200@60Hz (Co-lay LVDS) 1* LVDS up to 1920×1200@60Hz (Option) 1* HDMI1.4 up to 4096×2304@24Hz 1*DVI-D up to 4096×2304@24Hz 1*DP up to 4096×2304@60Hz	Power	24pin ATX + 8pin 12V
Storage	8* SATAIII (SATA6 co-lay M.2 2242), 1* M.2 M-key 2242 SATA interface (co-lay SATA6), 1* M.2 M-key 2242/2280/22110	Temperature	Operating: 0~60°C Storage: -20~85°C
Expansion Slot	2* PCIe x16, 2* PCI-E x4, 1* M.2 (E-key 2230), 1* M.2 (B key, 3042/3052), 1* SIM (Nano)	Dimension	244 * 244mm (10" * 10")

*The Specification may be changed without further notice.
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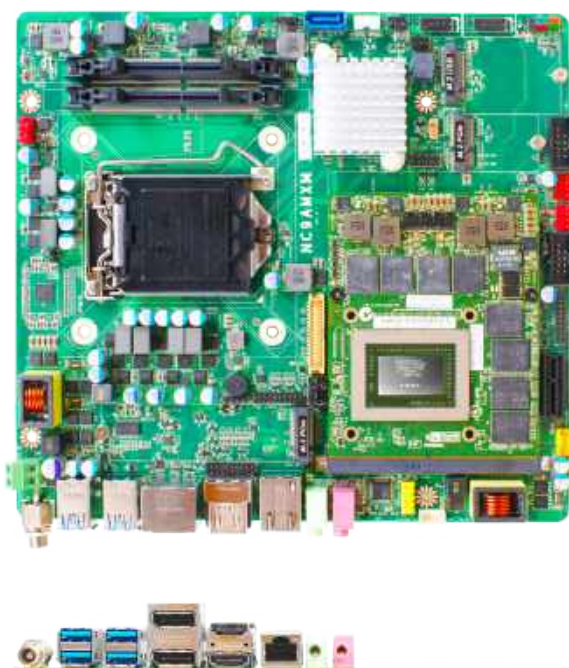
JNC9AMXM-H310

Features

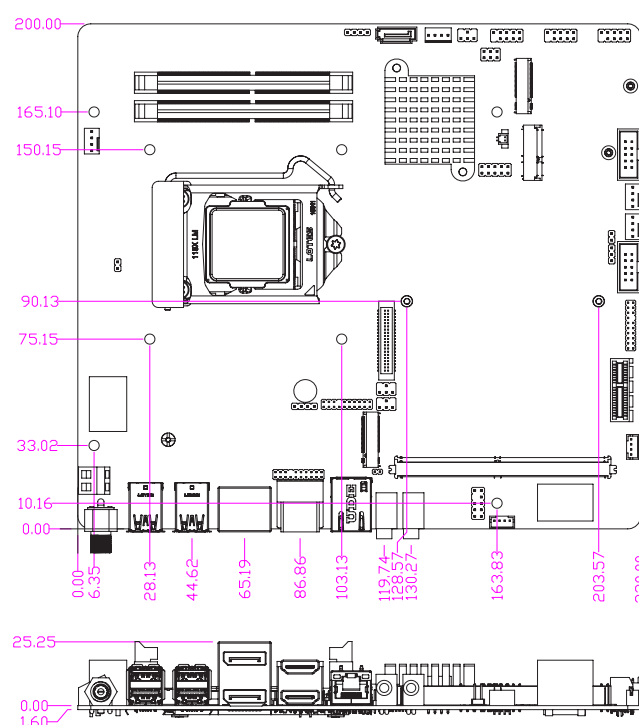


- Support Intel 8th/9th LGA1151 socket processor with H310 chipset (Max 90W)
- Dual Channel DDR4 2133MHz SO-DIMM up to 32GB
- 1* MXM VGA Card Socket (MXM: 90W)
- 1* SATAIII, M.2 (M key 2280, NVMe), 1* PCIe x1, 1* M.2 E key, 1* M.2 B key
- 1* GbE, 2* RS232, 4* USB3.1, 4* USB2.0
- 12~36V DC-in
- Form Factor: 220 * 200mm

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel 8th/9th Processor with H310 chipse	Rear I/O Port	2* HDMI, 2* DP, 1* RJ45, 4* USB3.1, Line-Out, MIC, 1* DC-in
Memory	2* Dual CH DDR4 2400MHz SO-DIMM up to 32GB		
Ethernet	1* Intel i219LM GbE		
Graphic	1* eDP 1.2 up to 4096×2304@60Hz by CPU 1* DP up to 4096×2304@60Hz, by CPU 1* HDMI up to 4096×2160@30Hz, by CPU By MXM VGA card: 3* HDMI, 1*DP Support up to 6 displays	Internal I/O Port	4* USB 2.0, 1* eDP, 2* HDMI, 2* COM (COM2: 5V/12V TTL), 1* GPIO, 1* Audio Header, 1* 3W AMP Speaker
		WDT	256 segments (10sec ~ 255min)
Storage	1* SATAIII, 1* M.2 M-key 2280 support NVMe	Power	12~36V DC IN
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x1, 1* MXM card, 1* M.2 E-Key 2230, 1* M.2 B-Key 3042, 1* SIM Card holder	Dimension	220 * 200mm (8.66" * 7.87")

*The Specification may be changed without further notice.
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JNMF891-H310

Features

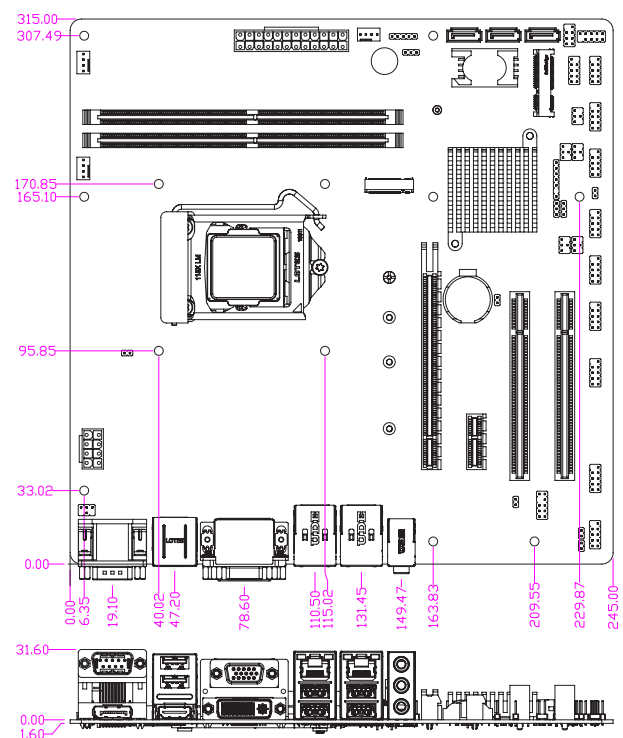


- Support Intel 8th/9th LGA1151 socket processor with H310 chipset
- 2* DDR4 2666MHz UDIMM up to 32GB
- HDMI / DVI-D / VGA / DP, support Dual displays
- 1* PCIe x16, 1* PCIe x1, 2* PCI, 1* Mini PCIe, M.2 M-key
- 4* USB 3.1(Gen. 1), 4* USB 2.0, 10* COM
- Micro ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel 8th/9th Processor with H310 chipset	Rear I/O Port	1* HDMI, 1* DVI-D, 1* VGA, 1* DP, 2* RJ45, 4* USB3.1(Gen. 1), 2* USB2.0, 1* COM
Memory	2* DDR4 2666MHz UDIMM up to 32GB		(COM1: RS232/422/485), Line-out, Line-in, MIC
Ethernet	2* Realtek RTL8111H GbE	Internal I/O Port	2* USB2.0, 1* GPIO, 9* COM (COM2: RS232/422/485), 1* PS/2, 1* Audio header, 1* onboard TPM option
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI up to 4096x2160@30Hz 1* DVI-D up to 1920x1200@60Hz 1* DP up to 4096x2304@60Hz	WDT	10 Sec. ~ 255 Min. programmable
Storage	3* SATAIII, 1* M.2 (M key 2242/2260/2280/22110, SATA interface)	Power	ATX power input
Expansion Slot	1* PCIe x16, 1* PCIe x1, 2* PCI, 1* Mini PCIe (full size), 1* SIM card slot	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
		Dimension	244 * 244mm (10" * 10")

*The Specification may be changed without further notice.
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MM91 Series

Features

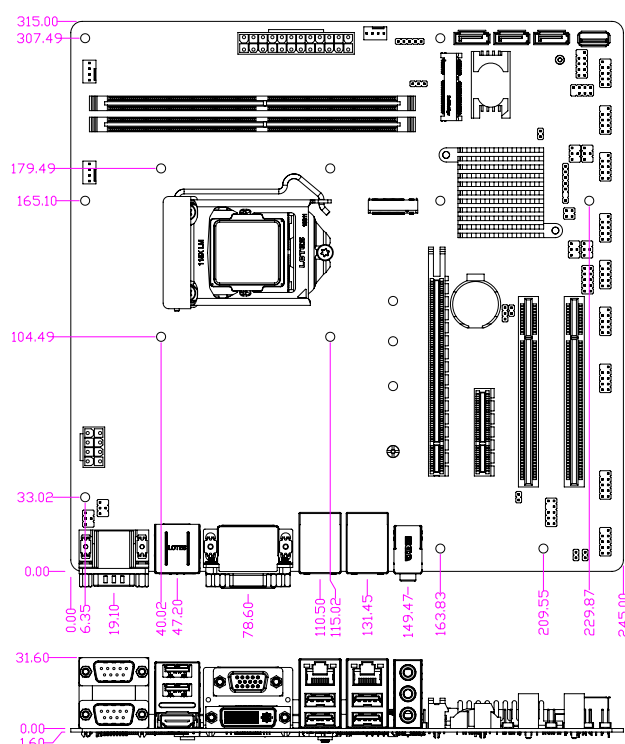


- Intel 6th/7th LGA1151 Socket Processors (Max.65W)
- Intel H110 Express Chipset
- 2* DDR4 2133MHz UDIMM up to 32GB
- 3* SATAIII 1* M.2 (M-key 2242/2260/2280/22110)
- 4* USB 3.0, 5* USB 2.0, 10* COM (COM1: RS232/422/485), 2* GbE
- Support TPM function (option)
- Micro ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel 6th/7th Processor with H110 chipset	Rear I/O Port	1* VGA, 1* HDMI, 1* DVI-D, 2* RJ45, 4* USB3.1 (Gen. 1), 2* COM (COM 1: RS232/422/485), 2* USB2.0, Line-in, Line-out, MIC
Memory	2* DDR4 2133MHz UDIMM up to 32GB	Internal I/O Port	3* USB2.0 (1* Vertical type), 8* COM, 1* GPIO, 1* PS/2, 1* Audio Header, Onboard TPM (option)
Ethernet	1* Intel i211AT GbE 1* Intel i219V GbE	WDT	256 segments (10sec ~ 255min)
Graphic	1* VGA up to 1920×1200@60Hz 1* DVI-D up to 1920×1200@60Hz 1* HDMI1.4 up to 4096×2160@24Hz	Power	ATX power input (8+24 pin)
Storage	3* SATAIII, 1* M.2 M-key 2242/2260/2280/22110 (SATA interface)	Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x16, 1 * PClex4, 2 * PCI, 1 * Mini PCIe (full size), 1* SIM card slot	Dimension	244 * 244mm (10" * 10")

*The Specification may be changed without further notice.
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JNMF691-H110

Features

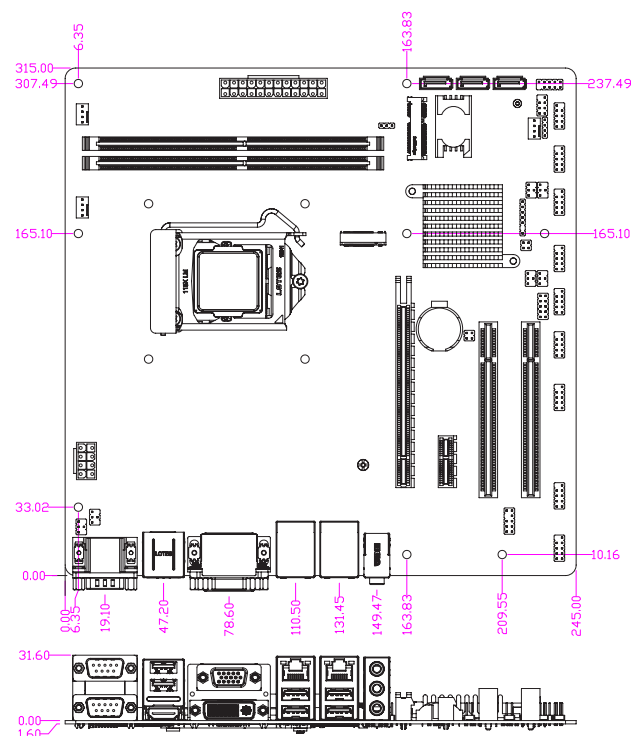


- Support Intel 6th/7th LGA1151 socket processor with H110 chipset
- 2* DDR4 2133MHz UDIMM up to 32GB
- HDMI / DVI-D / VGA, support Dual displays
- 1* PCIe x16, 1* PCIe x1, 2* PCI, 1* Mini PCIe
- 4* USB 3.0, 5* USB 2.0, 10* COM
- Micro ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel 6th/7th processor with H110 chipset	Rear I/O Port	1* HDMI, 1* DVI-D, 1* VGA, 2* RJ45, 4* USB3.0, 2* USB2.0, 2* COM (COM1: RS232/422/485), Line-out, Line-in, MIC
Memory	2* DDR4 2133MHz UDIMM up to 32GB		
Ethernet	2* Realtek RTL8111G GbE		
Graphic	1* VGA up to 1920x1200@60Hz 1* HDMI up to 4096x2160@24Hz 1* DVI-D up to 1920x1200@60Hz	Internal I/O Port	3* USB2.0, 8* COM, 1* GPIO, 1* PS/2, 1* Audio header, 1* onboard TPM option
		WDT	10 Sec. ~ 255 Min. programmable
Storage	3* SATAIII, 1* M.2 (M key 2242, 2260, 2280, 22110, SATA interface)	Power	ATX power input
		Temperature	Operating: 0~60°C w/0.7 m/s air flow Storage: -20~85°C
Expansion Slot	1* PCIe x16, 1* PCIe x1, 2* PCI, 1* Mini PCIe (full size), 1* SIM card slot	Dimension	244 * 244mm (10" * 10")

*The Specification may be changed without further notice.
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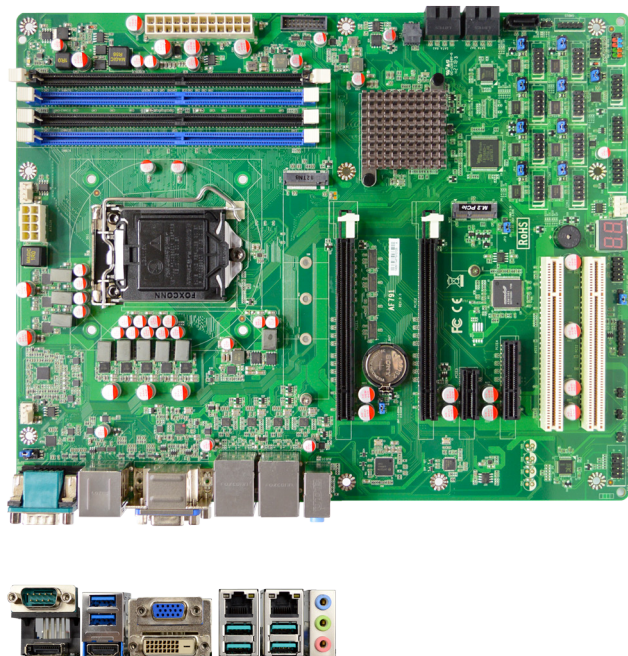
JNAF791 Series

Features

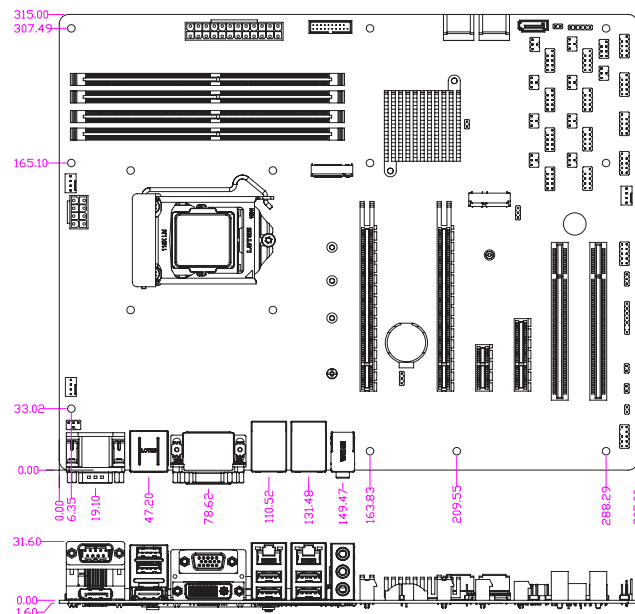


- Support Intel 8th/9th LGA1151 socket processor with Q370/C246 chipset
- 4* DDR4 2400/2666MHz UDIMM up to 128GB (ECC only C246)
- HDMI / DP / VGA / DVI-D, support Triple displays
- 2* PCIe16, 1* PCIe x4, 1* PCIe x1, 2* PCI, 1* M.2 E-key, 1* M.2 M-key
- 4* USB 3.1(Gen. 2), 4* USB 3.1(Gen. 1), 4* USB 2.0
- ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel 8th/9th Processor with Q370/C246 chipset	Rear I/O Port	1* VGA, 1* DP, 1* HDMI, 1* DVI-D, 2* GbE,
Memory	4* DDR4 2400/2666MHz UDIMM up to 64GB (ECC only C246)		4* USB3.1(Gen. 2), 2* USB3.1 (Gen. 1),
Ethernet	Q370: 1* Intel i211AT & i219LM GbE		1* RS232/422/485, Line-out, Line-in, MIC
Graphic	C246: 1* Intel i210AT & i219LM GbE	Internal I/O Port	2* USB3.1(Gen. 1), 4* USB2.0, 1* GPIO,
	1* HDMI up to 4096x2160@30Hz		9* COM (COM2:RS232/422/485), 1* PS/2,
	1* VGA up to 1920x1200@60Hz		1* Audio header, 1* onboard TPM (option)
	1* DVI-D up to 1920x1200@60Hz		
	1* DP up to 4096x2304@60Hz		
Storage	5* SATAIII support RAID 0,1,5,10, 1* M.2 (M-Key 2242/2260/2280/22110, PCIe x4/SATA interface)	WDT	0~255 Sec./Min. programmable
	support NVMe	Power	ATX power input
Expansion Slot	2* PCI, 1* PCIe x1, 1* PCIe x4, 2* PCIe x16, 1* M.2 (E-key 2230)	Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
		Dimension	305 * 244mm (12" * 10")

*The Specification may be changed without further notice.
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JNC9L-AH110

Features

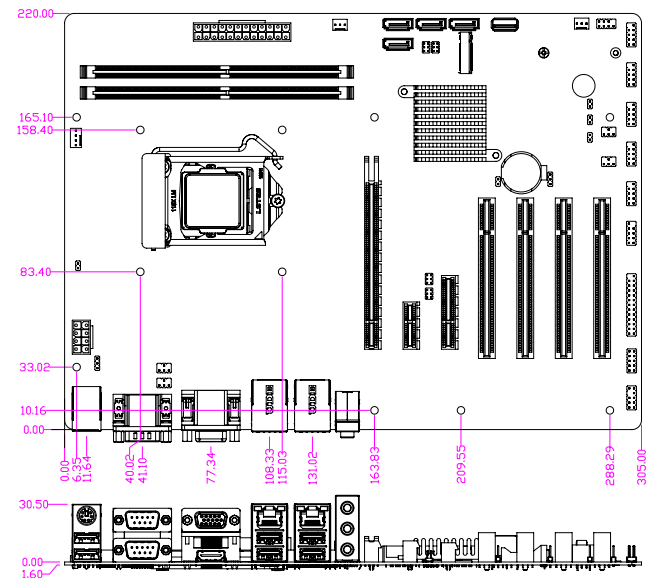


- Support Intel 7th/6th LGA1151 socket processor and H110 chipset
- 2* DDR4 2133MHz up to 32 GB
- HDMI / VGA, support dual display
- 2* Ext. COM, 4* Int. COM (COM1: RS232/422/485, COM1/2/3/4: 5V/12V TTL)
- 4* USB3.0, 5* USB2.0, 2* GbE
- 1* PCIe x16, 1* PCIe x4, 1* PCIe x1, 4* PCI, 1* M.2 (Support SSD, 2242/2280)
- ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Skylake Processor with H110 chipset	Rear I/O Port	1* VGA, 1* HDMI, 2* RJ45, 4* USB 3.0, 2* USB 2.0, Line-out/Line-in/MIC,
Memory	2* Long DIMM DDR4 2133MHz DRAM up to 32GB		2* COM (COM1: RS232/422/485, 5/12V TTL), 1* PS/2
Ethernet	1* Intel i211AT GbE	Internal I/O Port	3* USB2.0, 4* COM (COM3/4: 5/12V TTL),
Graphic	1* Intel i219LM GbE		1* Parallel, 1* M.2 (M key 2242/2280),
	1* VGA up to 1920×1200@60Hz		1* GPIO, 1* Audio header
	1* HDMI1.4 up to 4096×2304@24Hz		
		WDT	256 segments (10sec ~ 255min)
Storage	4* SATAIII (SATA4 Co-lay M.2), 1* M.2 (M key, 2242/2280)	Power	ATX power input
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~70°C
Expansion Slot	4* PCI, 1* PCIe x16, 1* PCIe x4, 1* PCIe x1	Dimension	305 * 220mm (12" * 8.66")

*The Specification may be changed without further notice.
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JNC7L-AH110 Series

Features

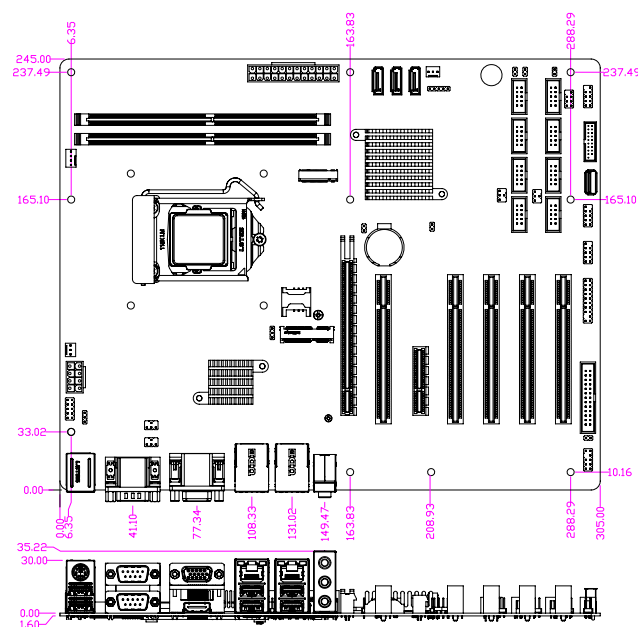


- Support Intel 7th/6th LGA1151 socket processor and H110 chipset
- 2* DDR4 2133MHz UDIMM up to 32GB
- 1* VGA, 1* HDMI
- 1* PCIe16, 1* PCIe4, 5* PCI, 1* Mini PCIe
- 8* USB 3.0, 5* USB 2.0
- JNC7L-AH110: 10* COM
- JNC7L-AH110-6C: 6* COM
- ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Skylake/Kabylake processor with H110 chipset	Rear I/O Port	1* VGA, 1* HDMI, 1* PS/2, 2* RJ45,
Memory	2* DDR4 2133MHz UDIMM up to 32GB		6* USB3.0, Line-out, Line-in, MIC,
			2* RS232/422/485
Ethernet	1* Intel i211AT GbE	Internal I/O Port	2* USB3.0, 5* USB2.0, 1* Parallel,
	1* Intel i219LM GbE		1* GPIO, 4 or 8* COM (COM3/4: 5/12V
Graphic	1* HDMI up to 4096x2160@24Hz		TTL),
	1* VGA up to 1920x1200@60Hz		1* Audio header, 1* TPM header
		WDT	0~255 Sec./Min. programmable
Storage	3* SATAIII, 1* M.2 (M key 2242/2280)	Power	ATX power input
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* PCIe x16, 1* PCIe x4 , 5* PCI, 1* Mini PCIe (full size)	Dimension	305 * 244mm (12" * 10")

*The Specification may be changed without further notice.
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JNAF591-Q170

Features

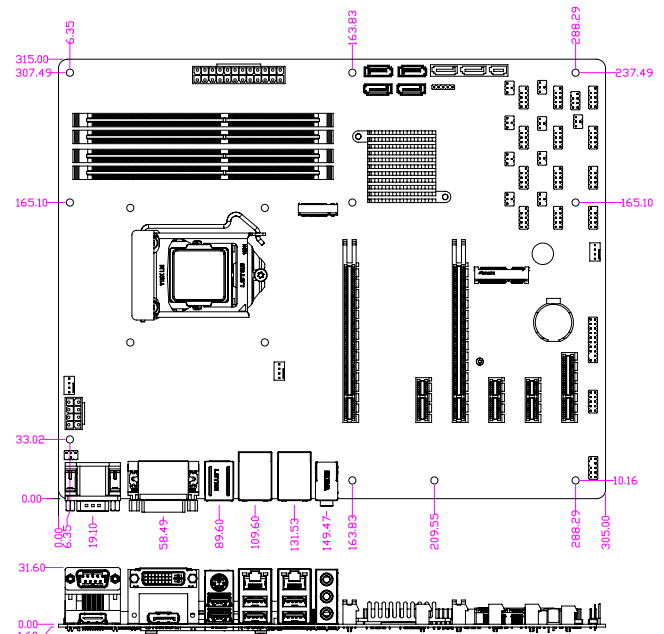


- Support Intel 6th/7th LGA1151 socket processor with Q170 chipset
- 4* DDR4 2133MHz UDIMM up to 64GB
- DP / HDMI / DVI-D, support Triple displays
- 1* PCIe x16, 1* PCIe x8, 1* PCIe x4,
- 3* PCIe x1, 1* Mini PCIe
- 6* USB 3.0, 4* USB 2.0, 10* COM
- ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel 6th/7th processor with Q170 chipset	Rear I/O Port	1* DP, 1* HDMI, 1* DVI-D, 2* RJ45,
Memory	4* DDR4 2133MHz UDIMM up to 64GB		6* USB3.0, 1* RS232/422/485,
			1* PS/2, Line-out, Line-in, MIC
Ethernet	1* Intel i211AT GbE		
	1* Intel i219LM GbE	Internal I/O Port	4* USB2.0, 1* GPIO, 1* Audio header,
Graphic	1* HDMI up to 4096x2160@24Hz		9* COM (COM2: RS232/422/485), 1* TPM
	1* DVI-D up to 1920x1200@60Hz		header
	1* DP up to 3840x2160@60Hz		
		WDT	0~255 Sec./Min. programmable
Storage	4* SATAIII, 1* M.2 (M-key 2242/2260/2280/22110)	Power	ATX power input
	shared with SATA1 (PCIe x4 interface, ME FW	Temperature	Operating: 0~60°C w/0.7 m/s air flow
	option)		Storage: -20~85°C
Expansion Slot	1* PCIe x16, 1* PCIe x8 (share with PCIe x16),		
	1* PCIe x4, 3* PCIe x1, 1* Mini PCIe (full size)	Dimension	305 * 244mm (12" * 10")

*The Specification may be changed without further notice.
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JNC7I-AH81

Features

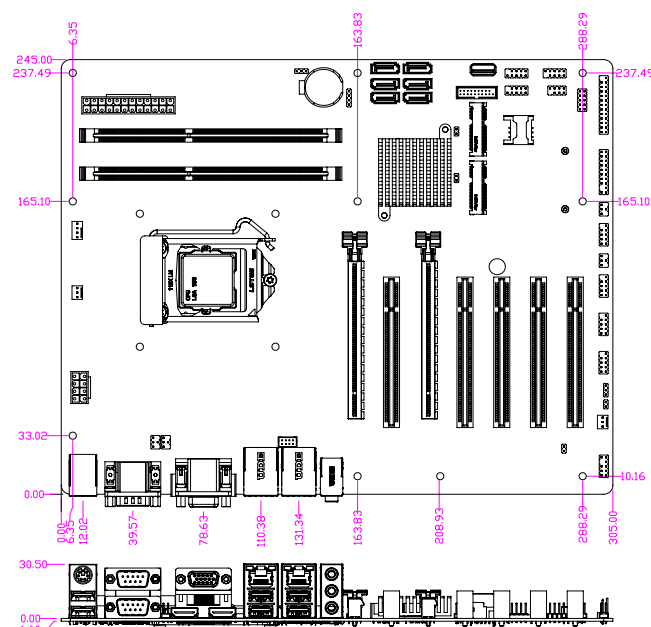


- Support Intel LGA1150 socket processor and H81 chipset
- 2* DDR3L 1600MHz UDIMM up to 16GB
- 2* HDMI, 1* VGA
- 1* PCIe x16, 1* PCIe x1, 5* PCI, 1* Mini PCIe
- 4* USB3.0, 7* USB2.0, 6* COM
- ATX Form Factor

Photo



Mechanical Dimension



Specification

Processor/Chipset	Intel Haswell processor with H81	Rear I/O Port	2* HDMI, 1* VGA, 2* RJ45, 4* USB3.0,
Memory	2* DDR3L 1600MHz UDIMM up to 16GB		2* USB2.0, 1* PS/2, 2* RS232/422/485,
			Line-out, Line-in, MIC
Ethernet	2* Realtek RTL8111G GbE	Internal I/O Port	5* USB2.0, 1* GPIO, 1* Parallel,
Graphic	1* VGA up to 1920x1200@60Hz		4* COM (COM3/4 : 5V/12V),
	2* HDMI up to 2560x1600@60Hz		1* Audio header, 1* TPM header
		WDT	0~255 Sec./Min. programmable
Storage	2* SATAIII, 2* SATAII, 1* mSATA (shared with SATA4)	Power	ATX power input
		Temperature	Operating: 0~60°C w/0.7 m/s air flow
			Storage: -20~85°C
Expansion Slot	1* PCIe x16, 1* PCIe x1, 5* PCI, 1* Mini PCIe (full size)	Dimension	305 * 244mm (12" * 10")

*The Specification may be changed without further notice.
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COM**USB**

Model	JADMPEFT4CA	JADMPEASU3A
Size	30 x 50.95mm	30 x 50.95mm
Chipset	FINTEK serial port controller	AsMedia ASM1042 USB host controller
Interface	Mini PCIe	Mini PCIe
Connectors	4x 9-pin header	1x 19-pin header
Features	1. 2* RS232 2. 2* RS232/RS422/RS485 3. Asynchronous baud rates up to 1.5Mbps	1. Compliant with USB3.0 specification revision 1.0 2. Compliant with USB specification revision 2.0

GPIO

Model	JADMPEGIO16H
Size	30.0 x 26.8mm
Chipset	FINTEK F75114N
Interface	Mini PCIe (USB signal)
Connectors	Mini PCIe slot (half size)
Features	1. Mini-PCIe half size USB GPIO Interface 2. Support 16-bits GPIO

LAN**LAN**

Model	JADMPEIDLB	JADMPEISLB
Size	30 x 50.95mm	30 x 50.95mm
Chipset	Intel i350 GbE	Intel I210-AT GbE
Interface	Mini PCIe	Mini PCIe
Connectors	2x 9-pin header	1x 15-pin header
Features	1. Compliant with the 1Gb/s IEEE802.3, 802.3u, 802.3ab 2. Support full duplex operation at 10/100/1000 Mb/s 3. Half duplex at 10/100 Mb/s 4. Support Wake on LAN function (Mini PCI-E slot provides + 3VSB power supported) 5. PCIe GEN1(2.5GT/s) , GEN2(5GT/s) 6. Support 2* GbE	1. Compliant with the 1Gb/s IEEE802.3,802.3u,802.3ab specifications 2. Support Full duplex operation at 10/100/1000 Mb/s 3. Half duplex at 10/100 Mb/s 4. Support Wake on LAN function (Mini PCI-E slot provides + 3VSB power supported) 5. Support 1* Gb

LAN**LAN**

Model	JETC4G	JETC4B
Size	170 x 81.9mm	170 x 81.9mm
Chipset	Intel I211-AT GbE	Intel i211AT GbE
Interface	PCIe x4, 2.0 (5GT/s) rate	PCIe x4, 2.0 (5GT/s) rate
Connectors	4x RJ45	4x RJ45
Features	1. 4* Intel GbE 2. Support Wake on LAN S1/S3/S4/S5 mode Suitable M/B: JNF592-Q170 / JNF697-Q170 / JNF793-Q170 / JNF797-Q370	1. 4* Intel GbE 2. LAN1/LAN2 & LAN3/LAN4 supports 2 pairs of Bypass LAN function 3. Support Wake on LAN S1/S3/S4/S5 mode Suitable M/B: JNF592-Q170 / JNF697-Q170 / JNF793-Q170 / JNF797-Q370

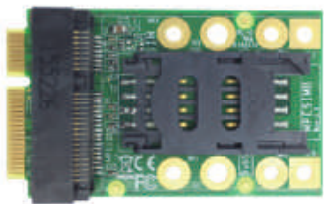
LAN**LAN**

Model	JETB4G	JETB4B
Size	170 x 91.8mm	170 x 91.8mm
Chipset	Intel i211AT GbE Pericom PI7C9X2G608GP Gen. 2 switch	Intel i211AT GbE Pericom PI7C9X2G608GP Gen. 2 switch
Interface	PCIe x1, 2.0 (5GT/s) rate	PCIe x1, 2.0 (5GT/s) rate
Connectors	4x RJ45	4x RJ45
Features	1. 4* Intel GbE 2. Support Wake on LAN S1/S3/S4/S5 mode Suitable M/B: JNF692G6 Series / JNF9HG-2930 / JNF9HB-2930	1. 4* Intel GbE 2. LAN1/LAN2 & LAN3/LAN4 supports 2 pairs of Bypass LAN function 3. Support Wake on LAN S1/S3/S4/S5 mode Suitable M/B: JNF692G6 Series / JNF9HG-2930 / JNF9HB-2930

TPM

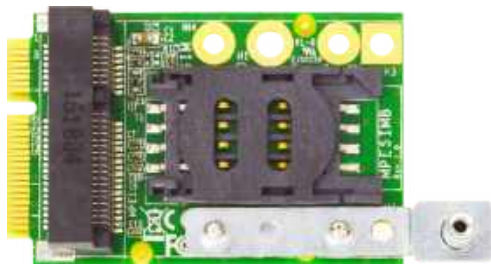


TPM



Model	JADMPETPMB	JADMPETPMB2
Size	30 x 50.95mm	30 x 50.95mm
Chipset	Nuvoton NPCT620AA0W TPM V1.3	Nuvoton NPCT650AAAWX TPM V2.0
Interface	LPC signal via Mini PCIe interface	LPC signal via Mini PCIe interface
Connectors	Mini PCIe slot	Mini PCIe slot
Features	1. Comply with TPM v1.2 standard 2. Support PC standby mode	1. Comply with TPM v2.0 standard 2. Support PC standby mode

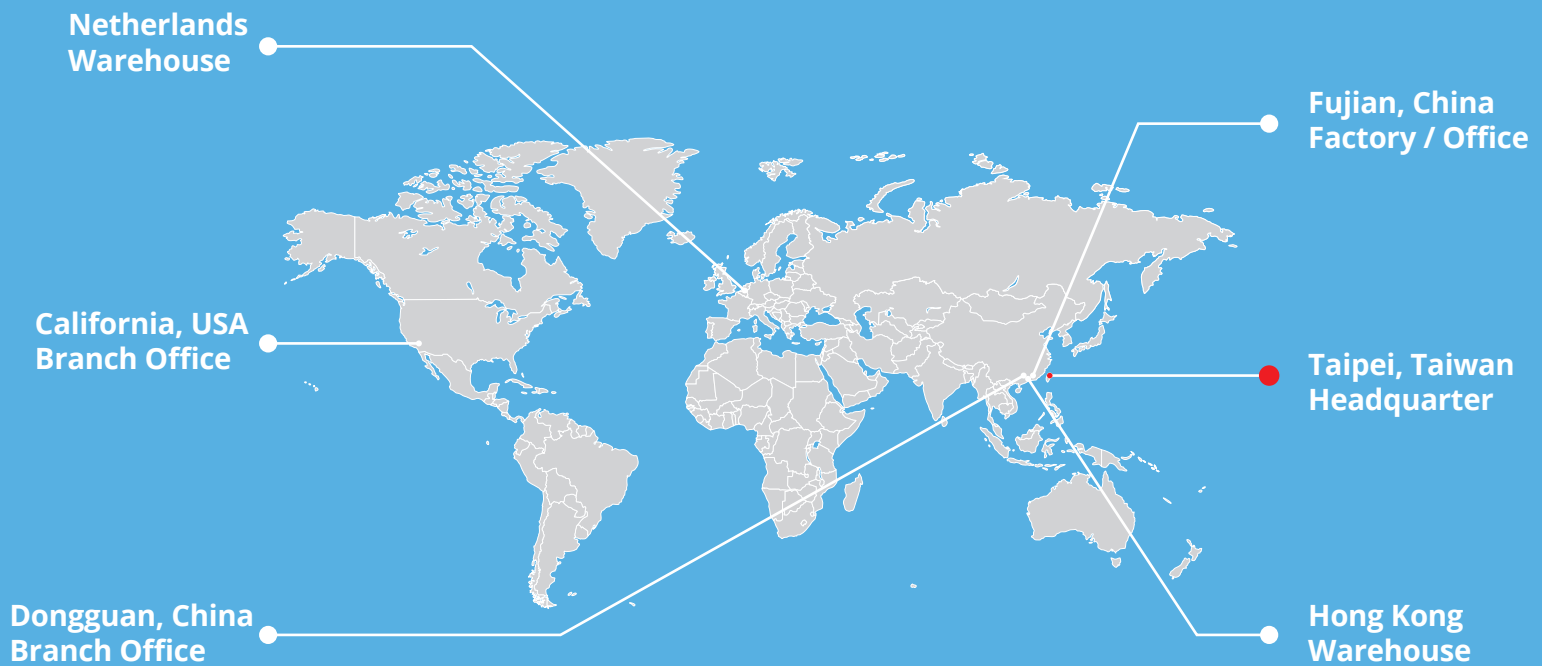
SIM Card



Model	JADMPESIMB
Size	30 x 50.95mm
Chipset	N/A
Interface	Mini PCIe
Connectors	Mini PCIe slot
Features	1. Mini PCIe Type SIM card 2. Standard full size Mini PCI-E card can be installed above the ADMPESIMB card



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