999.00 EUR
incl. 19% VAT, plus shipping

- LCD Panel !
- IPv6 !
- 0190-38062
- 6650-8-AMAT

The NPort® 6000 is a terminal server that uses the SSL and SSH protocols to transmit encrypted serial data over Ethernet. Up to 32 serial devices of any type can be connected to the NPort® 6000, using the same IP address. The Ethernet port can be configured for a normal or secure TCP/IP connection. The NPort® 6000 secure device servers are the right choice for applications that use large numbers of serial devices packed into a small space. Security breaches are intolerable and the NPort® 6000 Series ensures data transmission integrity with support for DES, 3DES, and AES encryption algorithms. Serial devices of any type can be connected to the NPort® 6000, and each serial port on the NPort® 6000 can be configured independently for RS-232, RS-422, or RS-485 transmission.

- LCD panel for easy IP address configuration (standard temp. models)
- Secure operation modes for Real COM, TCP Server, TCP Client, Pair Connection, Terminal, and Reverse Terminal
- Nonstandard baudrates supported with high precision
- Port buffers for storing serial data when the Ethernet is offline
- Supports IPv6
- Ethernet redundancy (STP/RSTP/Turbo Ring) with network module
- Generic serial commands supported in Command-by-Command mode
- Security features based on IEC 62443

Memory	
SD Slot	Up to 32 GB (SD 2.0 compatible)
Input/Output Interfaces	
Alarm Contact Channels	Resistive load: 1 A @ 24 VDC
Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	1 Auto MDI/MDI-X connection
Magnetic Isolation Protection	1.5 kV (built-in)
Compatible Modules	NM Series expansion modules for optional extension of RJ45 and fiber Ethernet ports
Ethernet Software Features	
Configuration Options	Web Console (HTTP/HTTPS), Windows Utility, Device Search Utility (DSU), MCC Tool, Serial Console, Telnet/SSH Console
Management	ARP, BOOTP, DHCP Client, DNS, HTTP, ICMP, IPv4/IPv6, PPPOE, SMTP, SNMPv1/v2c/v3, SNTP, TCP/IP, Telnet, UDP
Windows Real COM Drivers	Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Real TTY Drivers	Kernel versions: 2.4.x, 2.6.x, 3.x, 4.x, and 5.x
Fixed TTY Drivers	SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6.x, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X, macOS 10.12, macOS 10.13, macOS 10.14, macOS 10.15

Android API	Android 3.1.x and later
MIB	MIB-II
Time Management	SNTP Client
Unicast Routing	RIPV1/V2, Static Route
Authentication	Local Account Accessibility, RADIUS, TACACS+
Serial Interface	
Connector	NPort 6600 Models: 8-pin RJ45 NPort 6450 Models: DB9 male
No. of Ports	NPort 6450 Models: 4 NPort 6600-8 Models: 8 NPort 6600-16 Models: 16 NPort 6600-32 Models: 32
Serial Standards	NPort 6610 Models: RS-232 NPort 6450/6650 Models: RS-232/422/485
Secure Operation Modes	Reverse SSH, Secure Pair Connection, Secure Real COM, Secure TCP Client, Secure TCP Server, SSH
Standard Operation Modes	Disabled, Ethernet Modem, Pair Connection, PPP, Printer, Real COM, Reverse Telnet, RFC2217, TCP Client, TCP Server, Terminal, UDP
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Console Port	NPort 6600 Models: RS-232 (TxD, RxD, GND), 8-pin RJ45 (19200, n, 8, 1)
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	RTS/CTS, DTR/DSR, XON/XOFF
Pull High/Low Resistor for RS-485	NPort 6450 / 6650 Models: 1 kilo-ohm, 150 kilo-ohms
RS-485 Data Direction Control	NPort 6450 / 6650 Models: support ADDC® (automatic data direction control)
Terminator for RS-485	NPort 6450 / 6650 Models: 120 ohms
Serial Signals	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
Power Parameters	
Input Current	NPort 6450 Models: 730 mA @ 12 VDC NPort 6600 Models: DC Models: 293 mA @ 48 VDC, 200 mA @ 88 VDC AC Models: 140 mA @ 100 VAC (8 ports), 192 mA @ 100 VAC (16 ports), 285 mA @ 100 VAC (32 ports)
Input Voltage	NPort 6450 Models: 730 mA @ 12 VDC NPort 6600 Models: DC Models: 293 mA @ 48 VDC, 200 mA @ 88 VDC AC Models: 140 mA @ 100 VAC (8 ports), 192 mA @ 100 VAC (16 ports), 285 mA @ 100 VAC (32 ports)
Reliability	
Automatic Reboot Trigger	Built-in WDT
Alert Tools	Built-in buzzer and RTC (real-time clock)
Physical Characteristics	
Housing	Metal
Dimensions (with ears)	NPort 6450 Models: 181 x 103 x 35 mm (7.13 x 4.06 x 1.38 in) NPort 6600 Models: 480 x 195 x 44 mm (18.9 x 7.68 x 1.73 in)
Dimensions (without ears)	NPort 6450 Models: 158 x 103 x 35 mm (6.22 x 4.06 x 1.38 in) NPort 6600 Models: 440 x 195 x 44 mm (17.32 x 7.68 x 1.73 in)

Weight	NPort 6450 Models: 1,020 g (2.25 lb) NPort 6600-8 Models: 3,460 g (7.63 lb) NPort 6600-16 Models: 3,580 g (7.89 lb) NPort 6600-32 Models: 3,600 g (7.94 lb)
Interactive Interface	LCD panel display (non-T models only) Push buttons for configuration (non-T models only)
Installation	NPort 6450 Models: Desktop, DIN-rail mounting, Wall mounting NPort 6600 Models: Rack mounting (with optional kit)
Environmental Limits	
Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) -HV Models: -40 to 85°C (-40 to 185°F) All other -T Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	Standard Models: -40 to 75°C (-40 to 167°F) -HV Models: -40 to 85°C (-40 to 185°F) All other -T Models: -40 to 75°C (-40 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	NPort 6450 Models: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 NPort 6600 Models (except -48V/-HV models): IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power 1 kV; Signal 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 NPort 6600-48V Models: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF NPort 6650-HV Models: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF
Safety	UL 60950-1

Traffic Control	NEMA TS2
Vibration	IEC 60068-2-6
Freefall	IEC 60068-2-34
Declaration	
Green Product	RoHS, CRoHS, WEEE