Item no.: 384674

NPORT IA-5150-M-SC-T - 1-port serial device servers for industrial automation

from **491,12 EUR**

Item no.: 384674
shipping weight: 0.40 kg
Manufacturer: MOXA

📄 Product Description

NPort® IA device servers provide simple and reliable serial-to-Ethernet connectivity for industrial automation applications. The device servers can connect any serial device to an Ethernet network. To ensure compatibility with network software, they support a variety of port operating modes, including TCP Server, TCP Client and UDP. The high reliability of the NPort® IA device servers makes them the ideal choice for network access to RS-232/422/485 serial devices such as PLCs, sensors, counters, motors, drives, barcode readers and operator displays. All models are housed in a compact, robust enclosure that can be mounted on a DIN rail.Cascading Ethernet ports simplify wiring (10/100BaseTX models)The NPort® IA5150 and IA5250 device servers each have two Ethernet ports that can be used as Ethernet switch ports. One port connects directly to the network or server and the other port can be connected to either another NPort® IA device server or an Ethernet device. The dual Ethernet ports help reduce wiring costs by eliminating the need to connect each device to a separate Ethernet switch.Redundant power inputsThe NPort® IA5000 device servers have two power inputs that can be connected simultaneously to live DC power sources. If one power source fails, the other source automatically takes over. Redundant power inputs help ensure that your device server operates without interruption.Relay output warning and email alertsThe integrated relay output can be used to alert administrators to problems with the Ethernet connections or power inputs, or if the serial DCD or DSR signals change. The web console indicates which Ethernet connection or power input has failed or which serial signal has changed. An e-mail warning can also be issued if an exception is detected. These functions are valuable tools that enable maintenance technicians to react quickly in emergency situations.Fibre optics for Ethernet communicationThe NPort® IA5000 series includes 100BaseFX fibre optic models that support transmission distances of up to 5 km for multimode models and up to 40 km for singlemode models. Fibre optic cables are ideal for industrial applications as they are immune to electromagnetic interference. For environments where high ground loop voltages are present, fibre optics provide the best insulation protection, and because there is no risk of sparking, fibre optics are safer than copper cables for use in hazardous environments.Industrial certificationTo ensure safe and reliable operation in industrial environments, the NPort® IA5000 device servers have received various industrial certifications, including an IP30 rating for mechanical protection, UL 508 safety certification for industrial control equipment and explosion-proof certification for hazardous areas. Certifications include UL/cUL Class 1 Division 2 Groups A, B, C, D as well as ATEX Class 1 Zone 2 and IECEx Zone 2.Ethernet interface- 10/100BaseT(X) ports (RJ45 connection): 2 (1 IP, Ethernet cascade)- Magnetic isolation protection: 1.5 kV (built-in)- 100BaseFX ports (multi-mode SC connection): 1- 100BaseFX ports (single-mode SC connection): 1- Fibre opticEthernet software functions- Configuration options: Web Console (HTTP), Windows Utility, Telnet Console, Serial Console- Management: DHCP Client, IPv4, SMTP, SNMPv1, Telnet, ARP, BOOTP, DNS, HTTP, TCP/IP, UDP, ICMP, Rtelnet- Windows Real COM driver Windows: 11, 10, 8.1, 8, 7, Vista, XP, ME, 98 and 95- Windows Real COM driver Windows Server: 2022, 2019, 2016, 2012 R2, 2012, 2008 R2, 2008, 2003, 2000 and NT- Windows Real COM driver Windows Embedded: CE 5.0 and 6.0, Windows XP Embedded- Linux Real TTY driver: Kernel versions: 6.x, 5.x, 4.x, 3.x, 2.6.x and 2.4.x- Fixed TTY driver: macOS versions: 14, 13, 12, 11 and 10.1x, SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X- Support for Arm®-based platforms: Windows 11, Linux Kernel 6.x, 5.x, and 4.x, macOS 14, 13, 12 and 11- Virtual Machine: VMWare ESXi (Windows 11/10), VMware Fusion (Windows on macOS 14, 13, 12, 11 and 10.1x), Parallels Desktop (Windows on macOS 14, 13, 12, 11 and 10.1x)- Android API: Android 3.1.x and higher- Time management: SNTP- MIB: RFC1213, RFC1317Security functions- Authentication: Local database (password only)Serial interface- Connection: DB9 connector for RS-232 and terminal block for RS-422/485- Number of ports: 1- Serial standards: RS-232, RS-422, RS-485- Baud rate: Supports standard baud rates (unit=bps): 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230400- Data bits: 5, 6, 7, 8- Parity: None, Even, Odd, Space, Mark- Stop bits: 1, 1.5, 2- Flow control: RTS/CTS (RS-232 only), DTR/DSR (RS-232 only), XON/XOFF- Terminating resistor for RS-485: 120 Ohm- Pull high/low resistor for RS-485: 1 kilo-ohm, 150 kilo-ohm- Isolation: I models: 2 kV- RS-485 data direction control: ADDC (automatic data direction control)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-, GNDPerformance parameters- Input voltage: 12 to 48 VDC- Input current: 555 mA @ 12 VDC- Qty. Current inputs: 2- Power connection: Terminal blockRelay- Current carrying capacity of contacts: Resistive load: 1 A @ 30 VDCPhysical properties- Housing: Plastic- IP protection class: IP30- Dimensions: 29 x 89.2 x 118.5 mm (0.82 x 3.51 x 4.57 in)- Weight: 360 g (0.79 lb)- Mounting: DIN rail mountEnvironmental limits- Operating temperature standard models: 0 to 60°C (32 to 140°F)- Operating temperature wide temperature range models: -40 to 75°C (-40 to 167°F)- Storage temperature (including packaging): -40 to 85°C (-40 to 167°F)- Ambient relative humidity: 5 to 95% (non-condensing)Standards and certifications- EMC: EN 55032/35- EMI: CISPR 32, FCC Part 15B Class A- Safety: IEC 60950-1, EN 60950-1, EN 62368-1, UL 508- Maritime: DNV- Potentially explosive atmospheres: ATEX, Class I Division 2, IECEx- Free fall: IEC 60068-2-32- Shock: IEC 60068-2-27- Vibration: IEC 60068-2-6, IEC 60068-2-64EMS- IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV- IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m- IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV- IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV- IEC 61000-4-6 CS: 10 V- IEC 61000-4-8 PFMF- IEC 61000-4-11Declaration- Environmentally friendly product: RoHS, CRoHS, WEEEMTBF- Time: 1.175,887 hours- Standards: Telcordia (Bellcore) Standard TR/SR

📄 Specifications

Scan this QR code to view the product
All details, up-to-date prices and availability