

NetPort II

Serial to Ethernet cable adapter



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NetPort II Serial-Ethernet Cable Adapter

The NetPort II from Alpha Micro Components is a 'plug-and-play' serial-Ethernet cable adapter that enables any device or machine with a serial port to become network- and Internet enabled easily and quickly.

NetPort II features an integrated web server, allowing any device to which it is attached to be contacted and monitored via a standard Internet browser. TCP/IP protocol stacks are embedded into NetPort II, enabling it to operate within non-PC environments and it features a Modem Emulation Mode, allowing it to behave like a modem but communicate over TCP/IP.

NetPort II Features

- Complete network connectivity solution
- Integrated 10/100Mbps Ethernet port and serial cable
- Complete Device Server application with full IP stack and Web server
- Space saving form factor
- Serial data rate of up to 921.6Kbps
- 128/192/256-bit AES encryption
- Flexible power options including Power-over-Ethernet (PoE)
- Extended temperature range of -40°C to +85°C

NetPort II Applications

- Fire and security panels
- Vending machines
- EPOS Point-of-Sale terminals
- Remote IT management
- Access control
- Ticketing and financial applications
- Instrumentation and measurement
- Industrial control
- Building control
- Handheld computing
- Audio visual
- Home automation

NetPort II Selection Table

NetPort II Features	AMC-232LAN22-01-SDTE	AMC-232LAN22-01-S	AMC-485LAN32-01-SDTE	AMC-485LAN32-01-S	AMC-POELAN42-01-SDTE	AMC-POELAN42-01-S
10/100Mbps Ethernet	✓	✓	✓	✓	✓	✓
Serial data rate up to 921.6Kbps	✓	✓	✓	✓	✓	✓
Serial DB9 DTE port (null modem included)	✓		✓		✓	
Serial DB9 DCE port		✓		✓		✓
RS422 or RS485 (2 & 4 wire) interface support			✓	✓	✓	✓
Power-over-Ethernet (PoE) support					✓	✓
5VDC input voltage (mini USB-B jack)	✓	✓	✓	✓	✓	✓
5 – 15VDC at DB9 serial pin 9	✓	✓	✓	✓	✓	✓
Power provided to serial equipt. (DB9 pin 9)	✓	✓	✓	✓	✓	✓
Telnet, Web or Serial configuration options	✓	✓	✓	✓	✓	✓
Modem emulation mode	✓	✓	✓	✓	✓	✓
TCP/IP direct socket connection	✓	✓	✓	✓	✓	✓
Virtual Com Port (VCP) connection	✓	✓	✓	✓	✓	✓
DHCP client	✓	✓	✓	✓	✓	✓
6 page web server	✓	✓	✓	✓	✓	✓
128/192/256-bit AES encryption	✓	✓	✓	✓	✓	✓
Windows XP, Vista, 7 & Server 2003 & 2008 (32-bit & 64-bit)	✓	✓	✓	✓	✓	✓
Operating temperature -40°C to +85°C	✓	✓	✓	✓		
Operating temperature -40°C to +70°C					✓	✓



Features and Specifications

Serial Interface	
Modes	RS232, RS422* or RS485* (2 & 4 wire support) *Available on NetPort II 485 & PoE models
Baud Rate	300bps to 921.6Kbps
Characters	7 or 8 data bits
Stop Bits	1 or 2
Parity	Odd, even, more
Control Signals	CTS/RTS (Hardware)
Flow Control	CTS/RTS, XON/XOFF
Serial Connectors	
Single-port	DB9F (DCE pinned) or DB9M (via DTE pinned null modem gender changer)
Ethernet Interface	
Interface	10Base-T / 100Base-T (Auto-sensing)
Speed	10/100Mbps
Connector	RJ-45
Protocols	UDP, TCP, ARP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, Auto IP, HTTP, Telnet Com Port Control
Visual	
LED Indicators	Power/status, link, activity, serial RX activity & TX activity
Processor	
CPU	Based on DSTni-EX enhanced 16-bit x86 architecture
Memory	256KB SRAM, 1MB flash
Power Requirements	
Input Voltage	5V at mini-USB-B jack
Input voltage	5 – 15VDC at DB9F pin 9
Power Consumption	1.3W max. w/o PoE, 2.0W max with PoE



Features and Specifications

Security	
Encryption	128/192/256-bit AES encryption
Software	
Software requirements	Windows XP/Vista/7 or 2003 Server/2008 Server (32-bit & 64-bit versions) DeviceInstaller™ configuration software Com Port Redirector software Related utilities
Configuration Options	Web browser, Telnet client, Serial terminal
Isolation & Protection	
Serial Port	15KV ESD protection on RS232 and RS422/485 transceivers
Ethernet Port	1500VAC isolation shielded
PoE	1500VAC isolation
Environmental Limits	
Operating Temperature*	Non-PoE models: -40°C to +85°C (-40°F to +185°F) PoE models: -40°C to +70°C (-40°F to +158°F) *The operating temperature is the rating for the NetPort II. The rating of the power supply used may affect the overall operating temperature of the configuration.
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Relative Humidity	0% to 90% non-condensing
Form Factor	
Dimensions	NetPort II only: 86.6mm(L) x 30mm(W) x 29mm(D) NetPort II, cable and connector: 240mm(L) x 33mm(W) x 29mm(D)
Weight	0.068Kg (0.15lbs)
Warranty	
Warranty	5 years limited



Features and Specifications

Regulatory Approvals	
Emissions	FCC Part 15, Subpart B, Class B EN55022, Class B EN61000-3-2/3 ICES-003 Issue 4 AS/NZS CISPR22
Immunity	EN55024 EN61000-4-2/3/4/5/6/8/11
Agency Approvals	UL60950-1, 2 nd edition CAN/CSA C22.2 No. 60950-1-07, 2 nd Edition CE VCCI C-Tick IEC 60950-1 2005, 2 nd Edition RoHS

Ordering Information – RS232 Models

Model Number	Description
AMC-232LAN22-01-SDTE	NetPort II RS-232 Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector with null modem gender-changer for DTE output.
AMC-232LAN22-DKT01	NetPort II RS-232 Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector, null modem gender changer for DTE output, 100 – 240VAC international power supply with regional adapters and CD with software and documentation.
AMC-232LAN22-01-S	NetPort II RS-232 Serial-to-Ethernet adapter, with 11cm cable and DB9 (DCE) connector.
AMC-232LAN22-DKC01	NetPort II RS-232 Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector, 100 – 240VAC international power supply with regional adapters and CD with software and documentation.

Ordering Information – RS485 (RS232/422/485) Models

Model Number	Description
AMC-485LAN32-01-SDTE	NetPort II RS-485 (RS232/422/485) Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector and null modem gender-changer for DTE output.
AMC-485LAN32-DKT01	NetPort II RS-485 (RS232/422/485) Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector, null modem gender changer for DTE output, 100 – 240VAC international power supply with regional adapters and CD with software and documentation.
AMC-485LAN32-01-S	NetPort II RS-485 (RS232/422/485) Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector.
AMC-485LAN32-DKC01	NetPort II RS-485 (RS232/422/485) Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector, 100 – 240VAC international power supply with regional adapters and CD with software and documentation.

Ordering Information – Power-over-Ethernet PoE (RS232/422/485) Models

Model Number	Description
AMC-POELAN42-01-SDTE	NetPort II Power-over-Ethernet (RS232/422/485) Serial-to-Ethernet adapter, with 11cm cable and DB9 (DCE) connector and null modem gender-changer for DTE output.
AMC-POELAN42-DKT01	NetPort II Power-over-Ethernet (RS232/422/485) Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector, null modem gender changer for DTE output, 100 – 240VAC international power supply with regional adapters and CD with software and documentation.
AMC-POELAN42-01-S	NetPort II Power-over-Ethernet (RS232/422/485) Serial-to-Ethernet adapter, with 11cm cable and DB9 (DCE) connector.
AMC-POELAN42-DKC01	NetPort II Power-over-Ethernet (RS232/422/485) Serial-to-Ethernet adapter with 11cm cable and DB9 (DCE) connector, 100 – 240VAC international power supply with regional adapters and CD with software and documentation.