

Dupline® Serial to Ethernet Converter Type ETHCONV4



- Auto-detecting 10/100 Mbps Ethernet
- Built-in 15 KV ESD protection for all serial signals
- Configuration via web/Telnet/serial console
- Easy to Configure with the costume designed tool, see website: www.car-park.dk
- 2 x RS-485 port and 2 x Ethernet port
- Supports TCP server, TCP client and UDP

Product Description

The ETHCONV4 is a two channel serial-to-Ethernet Converter. The IP-based Ethernet unit makes it possible for the Carpark software to access local serial devices anywhere on a local LAN or Internet.

The ETHCONV4 configuration tool is designed to set up the converter to work with the Carpark software. The tool can be downloaded from the website:

www.car-park.dk

Ordering Key

ETHCONV4

Specifications

LAN Ethernet Protection	10/100 Mbps, RJ45 Built-in 1.5 KV magnetic isolation	Fixed TTY Drivers	SCO Unix, SCO OpenServer, UnixWare 7, UnixWare 2.1, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i
Serial No. of ports RS-485 Signals Serial Line Protection	2 x RS-485 port DATA+, DATA-, GND 15 KV ESD for all signals	Linux Real TTY Drivers	Linux kernel 2.4.x, 2.6.x
Serial Communication Parameters Parity	None, Even, Odd, Space, Mark	Power Requirements Power input Power consumption Power Line protection	12-48 VDC 440 mA@12V 4 KV Burst (EFT), EN61000-4-4 2 KV Surge, EN6100-4-5
Data bits Stop bits Flow control Speed	5, 6, 7, 8 1, 1.5, 2 RTS/CTS, XON/XOFF 110 bps to 230.4 Kbps	Mechanical Specifications Housing Weight	Plastic, IP30 protection NPort IA5150: 360 g NPort IA5250: 380 g 29 x 89.2 x 118.5 mm
Console Ports	RS-485 console	Dimensions	
Software Features Protocols	ICM, IP, TCP, UDP, DHCP, BootP, Telnet, DNS, SNMP, HTTP, SMTP, SNTTP, V1	Environment Operating Temperature Standard Models Wide Temp. Models Storage Temperature Ambient Relative Humidity	0 to 55°C (32 to 131°F) -40 to 75°C (-40 to 167°F) -40 to 85°C (-40 to 185°F) 5 to 95% (non-condensing)
Utilities	NPort Administrator Suite for Windows 95/98/ME/NT/2000/XP/2003/Vista/Windows 7 32 bit	Regulatory Approvals Safety	UL 508, UL 60950-1, EN 60950-1
Real COM/TTY Drivers	Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7 x86/x64, Embedded CE 5.0/6.0, XP Embedded	Hazardous locations	UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2
		EMC EMI	CE, FCC EN 55022 Class A, FCC Part 15 Subpart B Class A



Specifications (cont.)

EMS	EN 55024, EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 3, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN 61000-4-11	Shock Freefall Vibration	IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6
Marine	DNV	Reliability Water and Dust Proof Alert Tools Automatic Reboot Trigger	IP30 Built-in buzzer and RTC (real-time clock) Built-in WDT (watchdog timer)

Mode of Operation

The ETHCONV4 serial device server provides TCP Server, TCP Client, UDP Server/Client, Pair Connection, and Ethernet Modem, ensuring the compatibility of network software that uses a standard network API (Winsock, BSD Sockets).

Thanks to ETHCONV4's Real COM/TTY drivers, software that works with COM/TTY ports are now able to work on a TCP/IP network in no time. This excellent feature preserves your software investment and lets you enjoy the benefits of networking your serial devices instantly.

The ETHCONV4 serial device server supports automatic IP configuration protocols (DHCP, BootP) and manual configuration through the web console, Telnet console, serial console, and Utility. All methods ensure a quick and effective installation. And with Windows Utility, your installation job becomes more pleasant than ever, since all system parameters can be stored and copied to many other device servers.

By using the specially designed Moxa NPort configuration tool for the Carpark software, the user is able to set up/adjust the ETHCONV4 unit quickly and easily. The configuration tool can be downloaded from: www.car-park.dk.

Use the installation manual for Carpark for further information.

Reset Button - Press the Reset button continuously for 5 sec to load factory defaults: Use a pointed object, such as a straightened paper clip or toothpick, to press the reset button. This will cause the Ready LED to blink on and off. The factory defaults will be loaded once the Ready LED stops blinking (after about 5 seconds). At this point, you should release the reset button.

NPort IA LED Indicators (Front Panel)

Name	Colour	Function
PWR1, PWR2	Red	Power is being supplied to power input PWR1, PWR2
Ready	Red	Steady on: Power is on and NPort IA is booting up. Flashing: Indicates an IP conflict, the DHCP or BOOTP server did not respond properly, or a relay output alert occurred.
	Green	Steady on: Power is on and NPort IA is functioning normally. Flashing: The device server has been located by Administrator's Location function.
	Off	Power is off, or a power error condition exists.
Ethernet	Orange	10 Mbps Ethernet connection.
	Green	100 Mbps Ethernet connection.
	Off	Ethernet cable is disconnected, or has a short.
P1, P2	Orange	Serial port is receiving data.
	Green	Serial port is transmitting data.
	Off	No data is being transmitted or received through the serial port.

