ETHCONV
Технические характеристики

Serial to Ethernet Converter Type ETHCONV2

Dupline®
Fieldbus **Installationbus**

- Low cost; credit card size
- Auto-detecting 10/100 Mbps Ethernet
- Built-in 15 KV ESD protection for all serial signals
- Configuration via web/Telnet/serial console
- Easy to Configurate wit the costume designed tool
- 1 RS-232 port and 1 Ethernet port

Product Description

The ETHCONV2 is a one channel serial to Ethernet Converter. The IP-based Ethernet unit makes it possible for your software to access serial devices local anywhere on a local LAN or Internet.

The ETHCONV2 configuration tool is designed to set up the converter to work with Dupline-online.

Ordering Key

ETHCONV2

Specifications

LAN	
Ethernet	10/100 Mbps, RJ45
Protection	Built-in 1.5 KV magnetic isolation
Serial	
No. of ports	1 RS-232 port
RS-232 Signals	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Serial Line Protection	15 KV ESD for all signals
Serial Communication Parameters	
Parity	None, Even, Odd, Space, Mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
Flow control	RTS/CTS, XON/XOFF
Speed	100 bps to 230.4 Kbps
Console Ports	RS-232 console
Software Features	
Protocols	ICM, IP, TCP, UDP, DHCP, BootP, Telnet, DNS, SNMP, HTTP, SMTP
Utilities	NPort Administrator Suite for Windows 95/98/ME/NT/2000/XP/2003

Real COM/TTY Drivers	Windows 95/98/ME/NT/2000/XP/2003 COM driver, Linux real TTY driver, Unix Fixed TTY driver
Configuration	Web browser, serial/Telnet console, or Windows utility
Power Requirements	
Power input	9-30 VDC
Power consumption	165 mA@12V, 95 mA@24V
Power Line protection	4 KV Burst (EFT), EN61000-4-4
	2 KV Surge, EN61000-4-5
Mechanical Specifications	
Material	Aluminum (1 mm)
Environmental	
Operating Temperature	0 to 55°C (32 to 131°F), 5 to 95% RH
Storage Temperature	-20 to 85°C (-4 to 185°F), 5 to 95% RH
Regulatory Approvals	
EMC	FCC Class A, CE Class A
Safety	UL, CUL, TÜV

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Mode of Operation

ETHCONV2 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 ETHCONV2's Real COM/TTY drivers, software that works with COM/TTY ports can now work on a TCP/IP network in no time. This exellent feature preserves your software investment and lets you enjoy the benefits of networking your serial devices instantly.
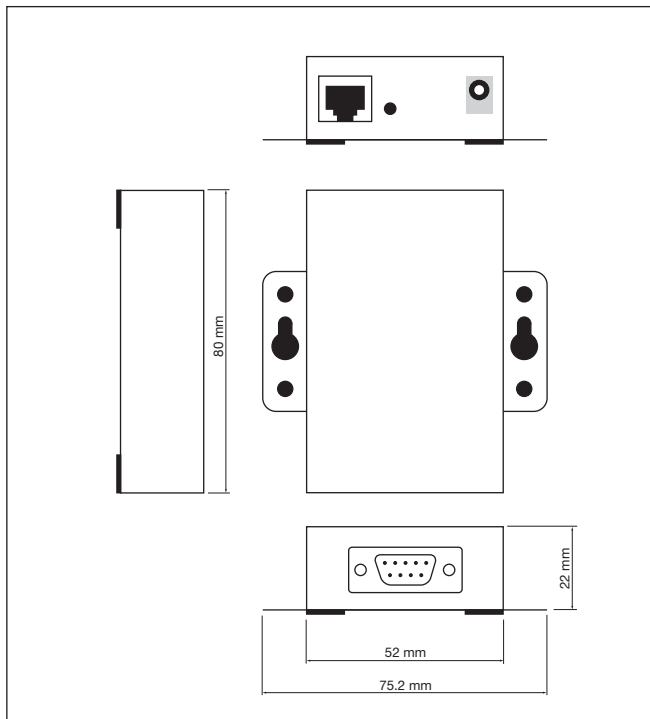
ETHCONV2 serial device server supports automatic IP configuration protocols (DHCP, BootP) and manual configuration through the web console, Telnet console, serial console, and Utility. All methods ensure quick and effective installation. And with Windows Utility, your installation job becomes more pleasant than ever, since all system parameters can be stored and copied to many other device servers.

By using the special designed Moxa NPort configuration tool for Dupline-online the user is able to set up/ajust the ETHCONV2 unit quickly and easily.

Use the installation manual for Dupline-online for further information.

Dimensions (mm)

Wiring Diagram

Male DB9 RS-232 port

PIN	RS-232
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS

RJ45

● Reset button

When reset button is held more than 3 sec. the converter returns to default settings.

Delivery Contens

• ETHCONV2 1-port Serial Device server
• Switching power adapter
• DK-35A: DIN-rail Mounting kit (35 mm)

Serial to Ethernet Converter Type ETHCONV3

Dupline®
Fieldbus | *Installationbus*

- Low cost; credit card size
- Auto-detecting 10/100 Mbps Ethernet
- Built-in 15 KV ESD protection for all serial signals
- Configuration via web/Telnet/serial console
- Easy to Configurate wit the costume designed tool
- 2 x RS-232 port and 2 x Ethernet port

Product Description

The ETHCONV3 is a two channel serial to Ethernet Converter. The IP-based Ethernet unit makes it possible for your software to access serial devices local anywhere on a local LAN or Internet.

The ETHCONV3 configuration tool is designed to set up the converter to work with Dupline-online.

Ordering Key

ETHCONV3

Specifications

LAN	
Ethernet	10/100 Mbps, RJ45
Protection	Built-in 1.5 KV magnetic isolation

Serial	
No. of ports	2 x RS-232 port
RS-232 Signals	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Serial Line Protection	15 KV ESD for all signals

Serial Communication Parameters	
Parity	None, Even, Odd, Space, Mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
Flow control	RTS/CTS, XON/XOFF
Speed	50 bps to 230.4 Kbps

Console Ports	RS-232 console

Software Features	
Protocols	ICM, IP, TCP, UDP, DHCP, BootP, Telnet, DNS, SNMP, HTTP, SMTP
Utilities	NPort Administrator Suite for Windows 95/98/ME/NT/2000/XP/2003

Real COM/TTY Drivers	Windows 95/98/ME/NT/2000/XP/2003 COM driver, Linux real TTY driver, Unix Fixed TTY driver
Configuration	Web browser, serial/Telnet console, or Windows utility

Power Reguirements	
Power input	9-30 VDC
Power consumption	305 mA@12V
Power Line protection	4 KV Burst (EFT), EN61000-4-4
	2 KV Surge, EN61000-4-5

Mechanical Specifications	
Weight	135 g
Material	Aluminum (1 mm)

Environmental	
Operating Temperature	0 to 55°C (32 to 131°F), 5 to 95% RH
Storage Temperature	-20 to 85°C (-4 to 185°F), 5 to 95% RH

Regulatory Approvals	
EMC	FCC Class A, CE Class A
Safety	UL, CUL, TÜV

Mode of Operation

ETHCONV3 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 ETHCONV3's Real COM/TTY drivers, software that works with COM/TTY ports can now work on a TCP/IP network in no time. This exellent feature preserves your software investment and lets you enjoy the benefits of networking your serial devices instantly.
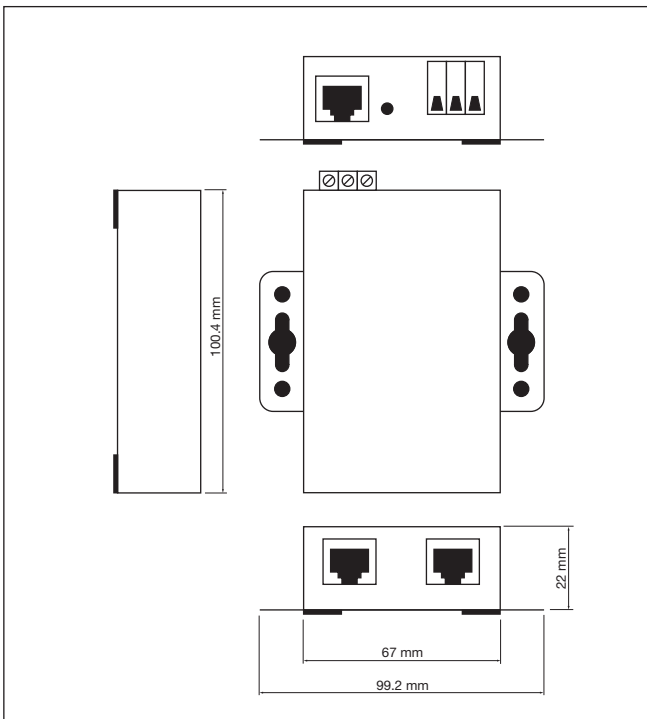
ETHCONV3 serial device server supports automatic IP configuration protocols (DHCP, BootP) and manual configuration through the web console, Telnet console, serial console, and

Utility. All methods ensure 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.
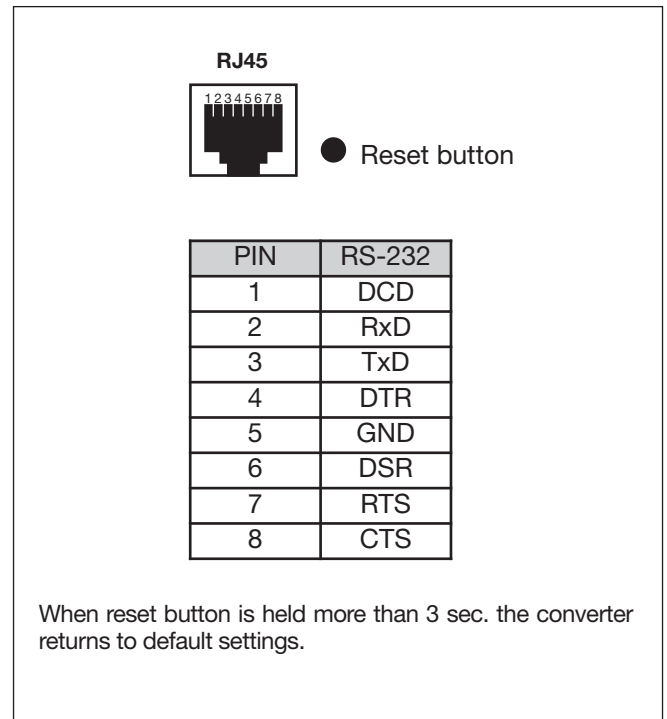
By using the special designed Moxa NPort configuration tool for Dupline-online the user is able to set up/ajust the ETHCONV3 unit quickly and easily.

Use the installation manual for Dupline-online for further information.

Dimensions (mm)

100,4 mm

22 mm

67 mm

99.2 mm

Wiring Diagram

RJ45

1 2 3 4 5 6 7 8

● Reset button

PIN	RS-232
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS

When reset button is held more than 3 sec. the converter returns to default settings.

Delivery Contens

• ETHCONV3 2-port Serial Device server
• Switching power adapter
• Power Jack to Terminal Block Cable
• Power Cord
• CBL-RJ45M9-150 x 2
• DK-35A: DIN-rail Mounting kit (35 mm)

Dupline®
Serial to Ethernet Converter
Type ETHCONV4

CARLO GAVAZZI

- Auto-detecting 10/100 Mbps Ethernet
- Built-in 15 KV ESD protection for all serial signals
- Configuration via web/Telnet/serial console
- Easy to Configurate wit 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	10/100 Mbps, RJ45
Protection	Built-in 1.5 KV magnetic isolation

Serial	
No. of ports	2 x RS-485 port
RS-485 Signals	DATA+, DATA-, GND
Serial Line Protection	15 KV ESD for all signals

Serial Communication Parameters	
Parity	None, Even, Odd, Space, Mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
Flow control	RTS/CTS, XON/XOFF
Speed	110 bps to 230.4 Kbps

Console Ports	RS-485 console

Software Features	
Protocols	ICM, IP, TCP, UDP, DHCP, BootP, Telnet, DNS, SNMP, HTTP, SMTP, SNTP, V1
Utilities	NPort Administrator Suite for Windows 95/98/ME/NT/2000/XP/2003/Vista/Windows 7 32 bit
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

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
Linux Real TTY Drivers	Linux kernel 2.4.x, 2.6.x

Power Requirements	
Power input	12-48 VDC
Power consumption	440 mA@12V
Power Line protection	4 KV Burst (EFT), EN61000-4-4 2 KV Surge, EN6100-4-5

Mechanical Specifications	
Housing	Plastic, IP30 protection
Weight	NPort IA5150: 360 g NPort IA5250: 380 g
Dimensions	29 x 89.2 x 118.5 mm

Environment	
Operating Temperature	
Standard Models	0 to 55°C (32 to 131°F)
Wide Temp. Models	-40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Regulatory Approvals	
Safety	UL 508, UL 60950-1, EN 60950-1
Hazardous locations	UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2
EMC	CE, FCC
EMI	EN 55022 Class A, FCC Part 15 Subpart B Class A

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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	IEC 60068-2-27
		Freefall	IEC 60068-2-32
		Vibration	IEC 60068-2-6
		Reliability	
		Water and Dust Proof	IP30
		Alert Tools	Built-in buzzer and RTC (real-time clock)
Marine	DNV	Automatic Reboot Trigger	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 exellent 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.
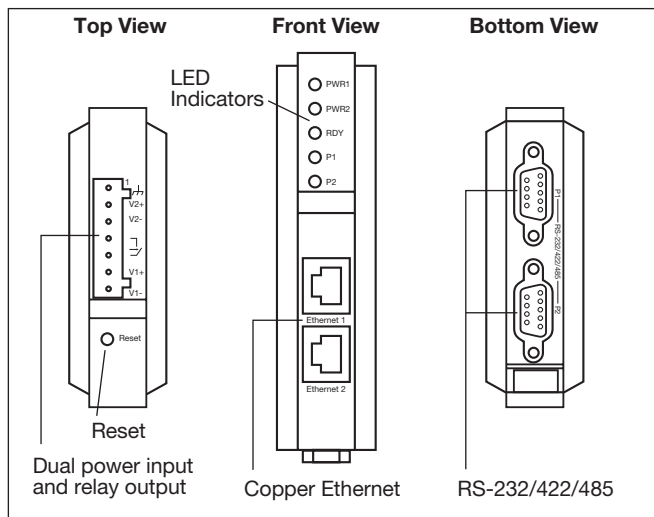
By using the specially designed Moxa NPort configuration tool for the Carpark software, the user is able to set up/adjust the ETHCONV4 unit quickly and easily. The configuration tool can be downloaded from: *www.car-park.dk.*

Use the installation manual for Carpark for further information.

Top View   **Front View**   **Bottom View**

LED Indicators

Reset

Dual power input and relay output

Copper Ethernet   RS-232/422/485

Reset Button - *Press the Reset button continously 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.
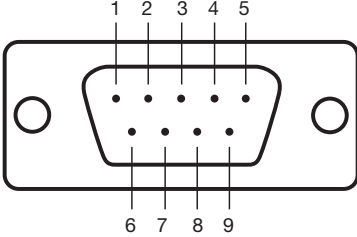
NPort IA LED Indicators (Front Panel)

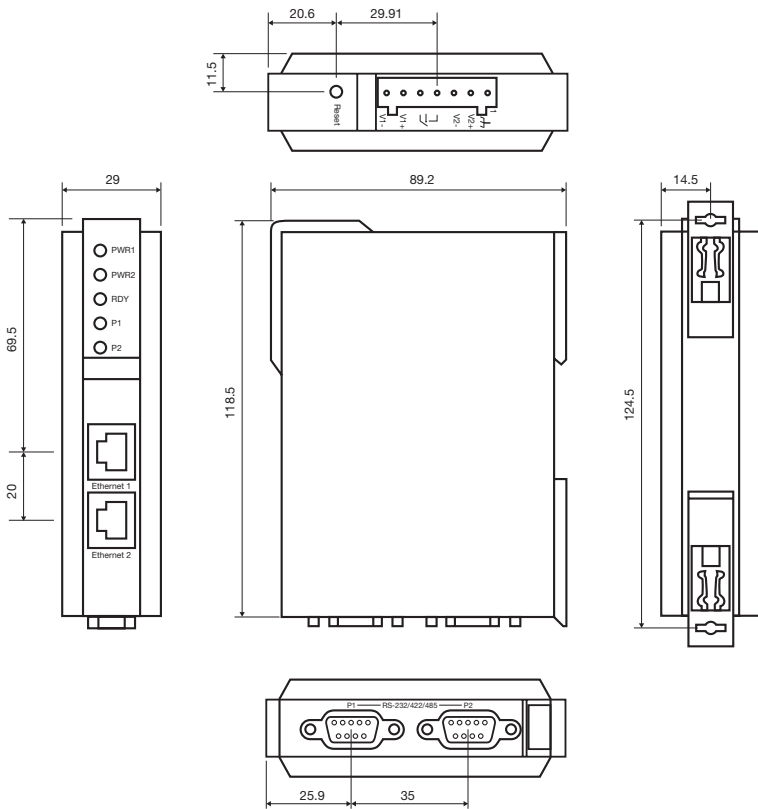| Name	Colour	Function
PWR1, PWR2	Red	Power is being supplied to power input PWR1, PWR2
Ready	Red	Steady on: Power is on and NPort IA is booting up. Flashing: Indicates an IP conflict, the DHCP or BOOTP server did not respond properly, or a relay output alert occured.
	Green	Steady on: Power is on and 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.

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Wiring Diagram

**RS-232/422/785
DB9 male port**

PIN	RS-232	RS-422/RS-485-4W	RS-485-2W
1	DCD	TxD- (A)	-
2	RxD	TxD+ (B)	-
3	TxD	RxD+ (B)	Data+ (B)
4	DTR	RxD- (A)	Data- (A)
5	GND	GND	GND
6	DSR	-	-
7	RTS	-	-
8	CTS	-	-

Dimensions (mm)

Delivery Contents

• ETHCONV4 2-port Serial Device server
• Documentation and software CD
• ETHCONV4 quick installation guide
• Warranty card

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
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Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
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Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Россия (495)268-04-70

Киргизия (996)312-96-26-47

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