

COPPERWAY

ETH/V24 ACCESS SERVER OVER DSL

ETHERNET & RS232 SERVER OVER DSL BUS

Characteristics advantages

- 1 Ethernet 10 / 100 BaseTX interface, auto sense
- 1 V24 / RS232 interface
- Dual DSL interface, 2 wires, TC-PAM G.SHDSL
- TC-PAM G.SHDSL : provides rates from 144 Kbps to 2.3 Mbps on each pair
- Ethernet filtering or transparent bridge
- 1,000 Ethernet addresses memory
- 400 Ethernet frames buffer
- RS232 port addressed as a COM port server through an IP address and / or a TCP/UDP port
- Easy to operate thanks to user friendly menus.
- Local and remote TCP-IP management
- SNMP management : for configuration and TRAP. Graphical MIB for SNMP-C
- Network test loop
- Compact size enclosure with a choice of mains (110 / 230 Vac) and DC power supply : 36-72 or 12-36 Vdc
- DIN rail mounting kit
- 19'' mounting kit for two units.

The **CopperWay** is aimed at transmitting data over 1 or 2 copper pairs in G.SHDSL mode to distribute V24/RS232 and Ethernet accesses in an industrial infrastructure.

The **CopperWay** embeds a powerful Ethernet switch that ensures an optimum internal transfer delay and reduce the end to end transmit delay over the bus.

The Ethernet interface is served in transparent bridge mode. It offers an automatic detection of the link speed, 10 or 100 Mbps, as well as the MDI/MDIX polarity.

The **CopperWay** is also an asynchronous port server with IP/TCP/UDP protocols and Raw-IP, Message and HNZ modes which make it possible to transport asynchronous data over an IP network.

The **CopperWay** provides 2 DSL line interfaces, East and West. The transmission mode complies with the G.SHDSL standard and supports rates from 144 Kbps to 2,320 Kbps per pair. The SHDSL mode offers unique reach on copper pairs.



The **CopperWay** fits in a compact metallic enclosure with a choice of mains (110/230 Vac) and DC (12-36 or 36-72 Vdc) power supplies that satisfies industrial and telecommunication requirements.

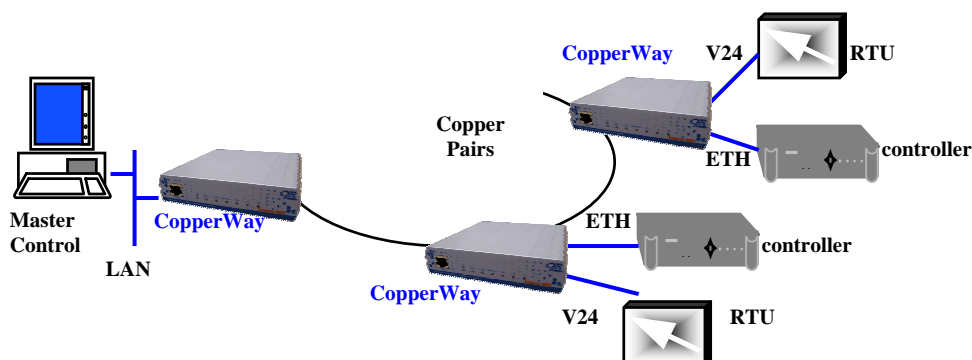
The **CopperWay** is very easy to operate thanks to its user friendly and intuitive menus. It can be managed from the IP network through Telnet and SNMP protocols.

The CopperWay can be installed in a 19'' bay or on a DIN rail thanks to its mounting kits.

The **CopperWay** is part of a large CXR range of products such as Terminal and COM port servers, xDSL access systems.

APPLICATIONS

Controlling equipments and collecting data in Ethernet/IP mode on a Bus or Ring SHDSL link



The CopperWay interconnects RS232 and Ethernet based systems on each access point of a copper pair infrastructure. The total number of access points is only limited by the IP addressing capability of the network. The internal transit delay is optimized thanks to powerful switching and filtering techniques. The Ethernet equipments are addressed just as if they were connected to the local network. Asynchronous devices are addressed though an IP address and of a TCP /UDP port number in either Raw-IP, HNZ or Message mode.

Ethernet and RS232 Access Server

Over SHDSL Copper Pairs

SPECIFICATIONS

G.SHDSL Line Interface

- 2 Interfaces : East and West
- G.SHDSL : TC-PAM 16 line coding, 144 to 2,320 Kbps throughput on each copper pair
- RJ11 sockets
- 125 Ohms impedance
- By-pass relay

V24/RS232 Interface

- 1 V24 / RS232 port
- RJ45 socket
- Asynchronous mode
- Data rate: 1,200 to 115,200 Bps
- V24/V28 levels
- Mode of operation : IP/TCP/UDP, Raw-IP (transparent), HNZ, Message

Digital Inputs / Outputs

- 2 digital inputs
- 2 dry relay outputs
- DB9F socket
- Commands and status transmitted over TCP or UDP (data field), or SNMP TRAP and GET, deport a relay command / contact over IP / DSL

Ethernet Interface

- 1 Ethernet port
- Speed: 10 / 100 Mbps, auto sense
- Automatic MDI / MDIX detection
- 10/100 BaseTX, IEEE 802.3
- RJ45 socket
- Ethernet bridge, 1,000 MAC addresses memory
- 400 Ethernet frames buffer
- User controlled Ethernet filtering
- Statistics : transmitted and received frames, filtering diagnostics

Configuration Port

- V24/V28 – 8 bit, 19,2 Kbps
- VT 100 compatible, AT commands or user friendly menus
- RJ45 socket

Front Panel LED

- Power
- CD 1 : first DSL port synchronization
- CD 2 : second DSL port synchronization
- Link/Act : Ethernet connection status and data activity
- 100 : speed of the Ethernet interface
- TX : data transmitted at the asynchronous RS232 interface
- RX : data received at the asynchronous RS232 interface

Management

- Local console port : AT commands, intuitive VT100 menus
- Diagnostics : network local loop, PING
- TCP-IP management : Telnet, SNMP, FTP for firmware upgrade
- Remote management : TCP-IP, Telnet, SNMP
- Statistics : counters for loss of synchronization and DSL carrier, data transmission statistics for each interface, Ethernet switching statistics.
- Alarm relay control in case of carrier loss. Uses one digital output.

Power Supply

- 230 Vac : MVE model
- 110 Vac : MVU model
- 36-72Vdc : MC1 model
- 12-36 Vdc : MC2 model

Miscellaneous

- Size : 146 x 144 x 31mm
- Weight : 0.7 kg
- Operating temperature
 - MC model : -25 to +60 °C
 - MV model : -10 to +45 °C
- CE : EN60950, EN55022, EN55024



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CopperWay -TTX - MX

XY : Power Supply Model

VE 230 Vac power supply
VU 110 Vac power supply
C 36-72 Vdc power supply
C-24 12-36 Vdc power supply

Options

DIN-CPE : DIN rail mounting kit
RAK-DUAL-CPE : 19'' mounting kit
WALL-CPE : wall mounting kit

The information contained in this document are provided without warranty and are not contractual
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ORDERING INFORMATION