

Product Datasheet - Technical Specifications



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COMETH

RS232 compact single port server



- Dongle format
- RS232, RS422, RS485 interfaces
- Easy administration from serial port or Ethernet
- MODBUS/TCP (Client / Server) protocol support
- Raw, Mux., and COM ports re-direction modes
- Metallic case, CE standards



Introduction

COMETH range products give access to any serial equipment from Windows, Unix & Linux computers connected to your Ethernet TCP/IP network, making it possible to communicate between two distant serial equipments through the network or even build an Ethernet / MODBUS gateway.

These products feature a very high integration and a very small form factor.

The support of the Telnet (RFC 2217) extension associated to a COM ports re-director enables distant serial equipments connected to the COMETH to be directly used by Windows & Linux existing applications using standard COM ports.

COMETH combines the flexibility and the power of the TCP/IP protocol as well as the universality of the Ethernet networks.

Technical characteristics overview

Serial port	Single asynchronous serial port, up to 230.4 Kbps 7 or 8 bits per character, 1 or 2 stop bits, even, odd, mark, space or no parity Hardware hand-shake (RTS/CTS) and/or software hand-shake (XON/XOFF)
RS signals available	RS232 : TxD, RxD (3 Tx signals, 5 Rx signals), RTS, DTR, CTS, DCD, DSR, RI (The pin can be used as remote power supply pin)
Connectors	Female SUB D9 (crossed DTE)
Protection	15KV ESD protection with HF signal filtering, CE conformity, RS/Ethernet 1500 Veff isolation
Ethernet network	10 Base T Ethernet, 10/100 compatible (RJ 45), the COMETH Ethernet interfaces are compatible with any 10/100 Base TX equipment (network card or HUB) featuring self-commutation, the serial data transfer between the COMETH and the hub is carried out at 10 Mb/s while the data transfer between the hub and the rest of the network is carried out at 100 Mb/s
Modes	Support for TCP Client/Server, DHCP Client, TELNET RFC2217 extension, Telnet Server, COM port re-director (VIP), multipoint or point to point virtual link over UDP modes and MODBUS/TCP Client/Server, MODBUS/RTU & MODBUS/ASCII protocols
Administration	From the serial port or through Ethernet (Telnet), firmware download for easy upgrade
Operating systems	Any compatible TCP/IP system
Signaling	1 diag. LED, 1 LAN LED & 1 RS232 LED
Power supply	Jack external (+4,5VDC to +5,5VDC) or remote power supply (SUB D connector, pin 9)
Dimensions & weight	COMETH: L80 x l23 x h24 mm, 35 g COMETH-LITE: L65 x l20 x h2 mm, 5 g
Environment	Operating temperature: 0°C to +70°C

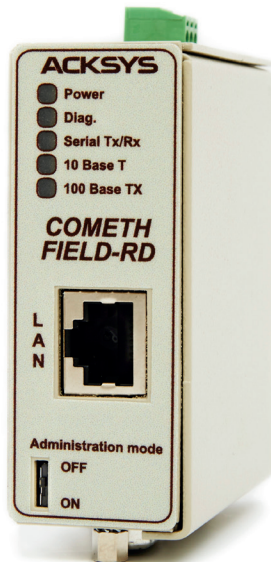
Ordering references

COMETH	RS232 to Ethernet TCP/IP single port server, with COM ports re-director & MODBUS/TCP, shipped with the AC adapter.
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COMETH-FIELD-RD

RS232 / RS422 / RS485 DIN Rail single port server



- DIN Rail format
- RS232, RS422, RS485 interfaces
- Easy administration from serial port or Ethernet
- MODBUS/TCP (Client / Server) protocol support
- Raw, Mux., and COM ports re-direction modes
- Metallic case, CE standards



Introduction

COMETH range products give access to any serial equipment from Windows, Unix & Linux computers connected to your Ethernet TCP/IP network, making it possible to communicate between two distant serial equipments through the network or even build an Ethernet / MODBUS gateway.

These products feature a very high integration and a very small form factor.

The support of the Telnet (RFC 2217) extension associated to a COM ports re-director enables distant serial equipments connected to the COMETH to be directly used by Windows & Linux existing applications using standard COM ports.

COMETH combines the flexibility and the power of the TCP/IP protocol as well as the universality of the Ethernet networks.

Technical characteristics overview

Serial port	Single asynchronous serial port, up to 230.4 Kbps 7 or 8 bits per character, 1 or 2 stop bits, even, odd, mark, space or no parity Hardware hand-shake (RTS/CTS) and/or software hand-shake (XON/XOFF)
RS signals available	RS232 : Tx, Rx (3 Tx signals, 5 Rx signals), RTS, DTR, CTS, DCD, DSR, RI RS422/485 : -Tx, +Tx, -Rx, +Rx. +RX and -RX signals can be polarized (jumpers)
Connectors	Male SUB D9 (RS232) & female SUB D9 (RS422/485)
Protection	15KV ESD protection with HF signal filtering, CE conformity, RS/Ethernet 1500 Veff isolation
Ethernet network	Ethernet 10/100 «auto-sensing» & «auto MDI / MDIX cross-over»
Modes	Support for TCP Client/Server, DHCP Client, TELNET RFC2217 extension, Telnet Server, COM port re-director (VIP), multipoint or point to point virtual link over UDP modes and MODBUS/TCP Client/Server, MODBUS/RTU & MODBUS/ASCII protocols
Administration	From the serial port or through Ethernet (Telnet), firmware download for easy upgrade
Operating systems	Any compatible TCP/IP system
Signaling	1 power LED, 1 diag. LED, 1 serial LED & 2 LAN LEDs
Power supply	External power supply +9VDC to +36VDC
Dimensions & weight	L73 x l76 x h29 mm, 120 g
Environment	Operating temperature: -40°C to +80°C

Ordering references

COMETH-FIELD-RD	RS232/RS422/RS485 to Ethernet TCP/IP single port server, with COM ports re-director & MODBUS/TCP
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