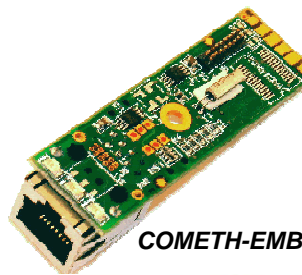


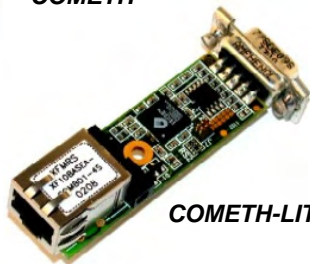
# Ethernet to Serial Servers



COMETH-EMBD



COMETH

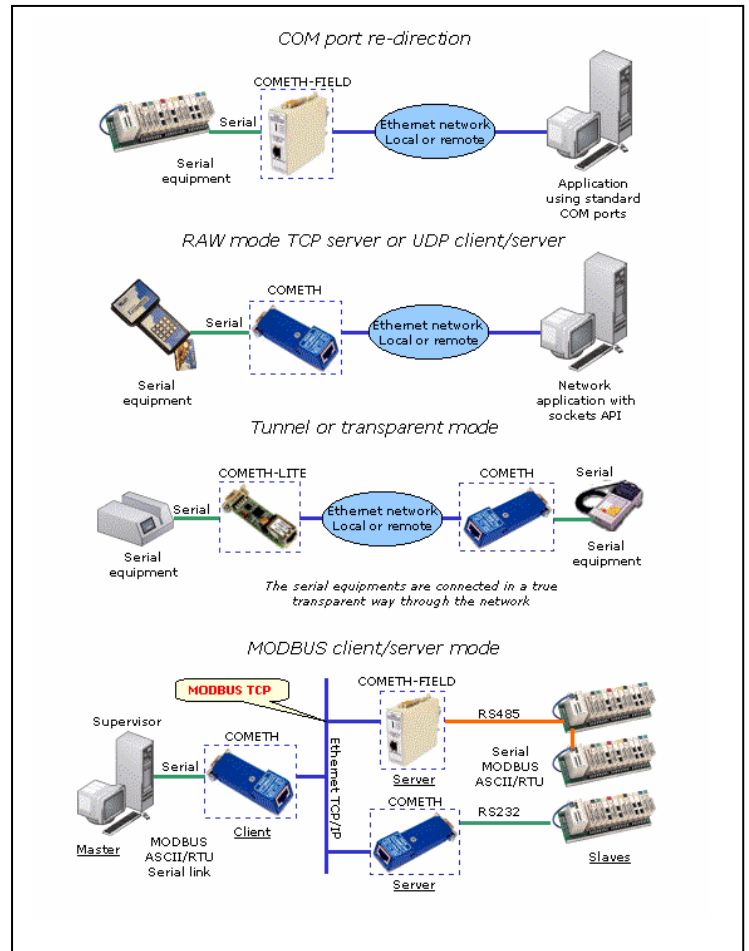


COMETH-LITE



COMETH-FIELD

## Brief features



- Full range : dongle, Din rail & circuit formats
- Very small size : COMETH-EMBD 20x63 mm
- 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, industrial CE conformity

## COMETH

### Single channel serial server over Ethernet TCP/IP

COMETH range products give access to any serial equipment from Windows, Unix & Linux computers connected to your Ethernet TCP/IP network, make 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.



#### WARRANTY

COMETH: LIFETIME  
COMETH-FIELD-RD: 5-YEAR  
OEM models: 1-YEAR



# TECHNICAL CHARACTERISTICS

<b>Serial port</b>	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)
<b>RS signals available</b>	RS232 model <sup>(1)</sup> : Tx, Rx, RTS, DTR, CTS, DCD, DSR, RI <sup>(2)</sup> RS422/485 model : -Tx, +Tx, -Rx, +Rx <sup>(3)</sup>
<b>Connectors</b>	Female SUB D9 (crossed DTE) for the COMETH & COMETH-LITE models, male SUB D9 (RS232) and female SUB D9 (RS422/485) for the COMETH-FIELD model, high density connectors for the COMETH-EMBD model
<b>Protection</b>	15KV ESD protection with HF signal filtering (except COMETH-EMBD), industrial CE conformity, RS/Ethernet 1500 Veff isolation (except COMETH-EMBD)
<b>Ethernet Network</b>	10 Base T Ethernet, 10/100 compatible (RJ 45) <sup>(5)</sup> , signaux TTL for the COMETH-EMBD <sup>(4)</sup> 10 Base T Ethernet, 10/100 compatible (RJ 45) <sup>(5)</sup> for the COMETH, COMETH-LITE, COMETH-EMBD-EVAL, 10/100 « auto-sensing » and « auto MDI / MDIX cross-over » for the COMETH-FIELD-RD
<b>Modes</b>	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
<b>Administration</b>	From the serial port or through Ethernet (Telnet), firmware download for easy upgrade
<b>Operating systems</b>	Windows 9x & Me, Windows NT & 2000, Linux, Unix-Sco, Aix
<b>Signaling</b>	LEDs for RS and Ethernet signal monitoring (except COMETH-EMBD)
<b>Power supply</b>	COMETH & COMETH-LITE : Jack external (+4,5VDC to +5,5VDC) or remote power supply (SUB D connector, pin 9) COMETH-FIELD : External power supply +9VDC to +36VDC COMETH-EMBD : External, +3,3VDC or +4,5VDC to +5,5VDC
<b>Environment</b>	Operating temperature : 0°C to +70°C (-25°C to +70°C for COMETH-FIELD-RD)
<b>Dimensions and weight</b>	COMETH : L80 x l23 x h24 mm, 35 g COMETH-LITE : L65 x l20 x h2 mm, 5 g COMETH-FIELD-RD : L74 x l76 x h28 mm, 125 g COMETH-EMBD : L65 x l20 x h2 mm, 5 g

- (1) : 3 Tx signals, 5 Rx signals
- (2) : The pin can be used as remote power supply pin on the COMETH & COMETH-LITE models
- (3) : +RX and -RX signals can be polarized (jumpers)
- (4) : An external Ethernet isolation transformer is required for the network connection
- (5) : The Ethernet interface of the COMETH is 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 Mbps while the transfer of the data between the HUB and the main network is carried out at 100 Mbps

## References to order

COMETH	RS232 to Ethernet TCP/IP single port server, with COM ports re-director license & MODBUS/TCP, add -T for the remote power supply models, shipped with the AC adapter except for the -T model
COMETH-LITE	RS232 to Ethernet TCP/IP single port server without case, with COM ports re-director license & MODBUS/TCP, add -T for the remote power supply models
COMETH-FIELD-RD	RS232/RS422/RS485 to Ethernet TCP/IP single port server, with COM ports re-director license & MODBUS/TCP
COMETH-EMBD	Single port serial to Ethernet server, serial, LEDs and Ethernet signals compatible TTL level, with COM ports re-director license & MODBUS/TCP
COMETH-EMBD-ETH	Single port serial to Ethernet server, serial, LEDs signals TTL level compatible, RJ45 transformer mounted on the PCB, with COM ports re-director license & MODBUS/TCP
COMETH-EMBD-EVAL	Single port serial to Ethernet server, serial, LEDs signals TTL level compatible, RJ45 transformer mounted on the PCB, with COM ports re-director license, MODBUS/TCP software license and connectors kit

**NB : COMETH-EMBD, COMETH-LITE & -T models are only available per quantities**

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