

Wireless serial device server & MODBUS/TCP gateway for industrial applications

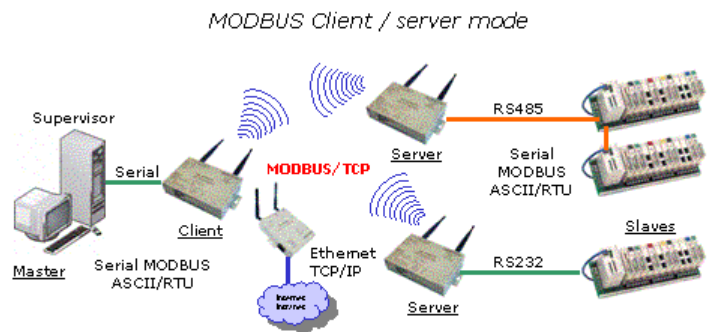
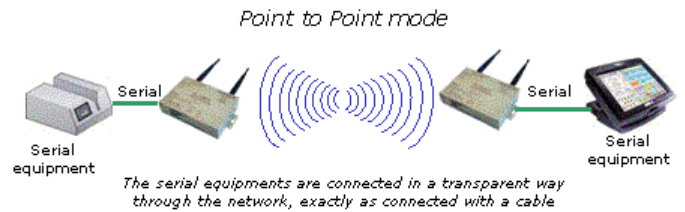
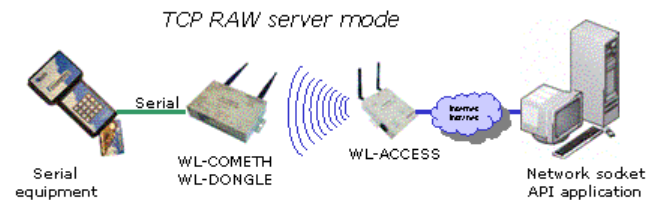
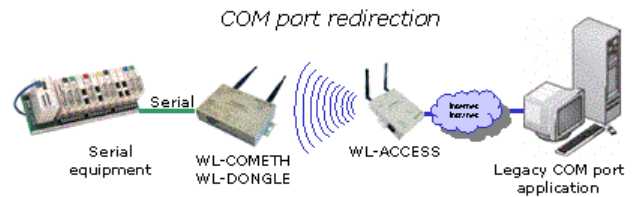


RS232

RS422

RS485

- Connect any serial peripheral to the WiFi network
- 300m nominal range (open space) from access point
- optional antenna connector for long distance
- secured data transfer (WEP keys)
- MODBUS/TCP Client / Server protocol support
- Raw, Peer to peer and COM ports redirector mode
- Robust metal case, CE industrial standards
- Wall, din rail, box universal mounting



WL-COMETH

IEEE 802.11b
WiFi 2,4 GHz



5-YEAR WARRANTY



IEEE 802.11b Ethernet wireless serial device server

WL-COMETH gives access to any serial equipments from Windows, Unix & Linux computers connected to your wireless Ethernet TCP/IP network, make it possible to communicate between two distant serial equipments through the network, or directly with a peer to peer connection (AD-Hoc mode) or even build a wireless Ethernet serial MODBUS to MODBUS/TCP gateway.

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.

Integrators and manufacturers (point of sales, medical instrumentation, industrial automation, security systems, building automation ...) can right now rely on this new technology to build safety wireless network applications while freeing themselves from wiring constraints.

TECHNICAL CHARACTERISTICS

Serial port	Single asynchronous serial port, up to 250 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 mode ⁽¹⁾ : TxD, RxD, RTS, DTR, CTS, DCD, DSR, RI RS422/485 mode : -Tx, +Tx, -Rx, +Rx ⁽²⁾
Connectors	SUB D9 male connector for RS232 interface, SUB D9 female for RS422/485 interface
Protection	15KV ESD protection with HF signal filtering, industrial CE conformity
IEEE 802.11b network	Compliant to the IEEE 802.11b, DSSS, 2.4 GHz wireless 11 Mbps Ethernet recommendation, 300 m nominal range (open space), 60 m in other cases, the 11 Mbps data rate is automatically reduced (auto-fallback system) to 5.5, 2 and 1 Mbps for greater range and/or better signal immunity, built-in antenna and RSMA external antenna connector for long distance (up to 20 Km depending to countries)
Channels	13 channels for Europe, 11 channels for USA & Canada, 14 channels for Japan
Sensibility	Transmitter +15 DBm, receiver -84 DBm (typical)
Modulation	CCK, BPSK, QPSK
Security	4 independent 64/128 bits WEP « Wired Equivalent Privacy » keys (alphanumerical or hexadecimal)
Operating 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, direct communication (ad hoc) or from access point
Administration	From the serial port or through the radio WiFi Ethernet network (Telnet), firmware download for easy upgrade
Operating systems	Windows 9x & Me, Windows NT & 2000, Linux, Unix-Sco, Aix
Signalling	LEDs signalling for TxD, RxD, network signals, link quality and radio level
Power supply	Built-in 85-264VAC universal power supply or DC (+9VDC to +36VDC)
Consumption	3 Watts
Environment	Operating temperature : 0 to +50°C Storage : -40 to +80°C
Dimensions	WL-COMETH : L : 125 x l : 110 x h : 38 mm, 438 grammes WL-COMETH-DC : L : 125 x l : 110 x h : 38 mm, 398 grammes

(1) : 3 Tx signals, 5 RX signals

(2) : RS422/485 +RX and -RX signals can be polarized (jumpers)

References to order

WL-COMETH Single RS232/RS422/RS485 serial port to the IEEE 802.11b wireless Ethernet network (WiFi), with Windows & Linux COM port redirector software licence, MODBUS/TCP gateway support, built-in AC power supply, built-in antennas and connector for an external antenna

Add the -DC suffix for DC powered models (+9VDC to +36VDC)

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