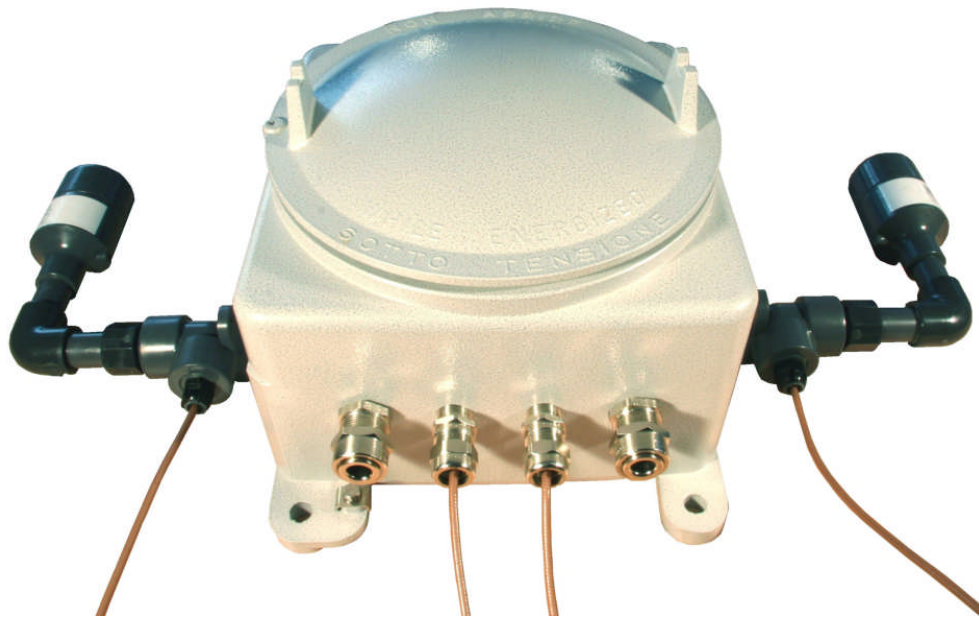


# Wireless RS232 / RS422 / RS485 serial device server for hazardous explosive area (Zone 1 & 21)



- Serial RS232 / RS422 / RS485 full duplex up to 250 Kbps
- Point to Point (virtual cable) & multipoint modes
- Virtual COM port redirector (VIP)
- TCP Client / Server, UDP & MODBUS/TCP support
- Aluminum IP66 enclosure, EX II 2GD EExd IIC protection, Zone 1 & 21
- Omnidirectional 3 dBi antennas, IP66, EX II 2GD EExe II T6 protection

## ***WL-COMETH-ATEX***

IEEE 802.11b  
WiFi 2.4 GHz

RF Module  
certified



5-YEAR WARRANTY



WL-COMETH-ATEX is designed for industrial applications in explosive environment like the chemical industries, refineries, electric stations, very dusty environments and also those where sparks and electric arcs occur...

WL-COMETH-ATEX 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 WL-IDA/S to be directly used by Windows & Linux existing applications using standard COM ports.

# TECHNICAL CHARACTERISTICS OVERVIEW

<b>Serial port</b>	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)
<b>RS signal available</b>	RS232 mode: TxD, RxD, RTS, DTR, CTS, DCD, DSR, RI RS422/485 mode: -Tx, +Tx, -Rx, +Rx <sup>(1)</sup>
<b>Connections</b>	Separated screw-in terminal block (Ethernet cable and power supply) inside the enclosure, cables output through stuffing boxes
<b>Protection</b>	15KV ESD protection with HF signal filtering
<b>IEEE 802.11b network</b>	Compliant to the IEEE 802.11b (g compatible), DSSS, 2.4 GHz wireless 11 Mbps Ethernet recommendation, 300 m nominal range (open space), 60 m in other cases
<b>Channels</b>	13 channels for Europe, 11 channels for USA & Canada, 14 channels for Japan
<b>Sensibility</b>	Transmitter +15 dBm, receiver -84 dBm (typical)
<b>Modulation</b>	CCK, BPSK, QPSK
<b>Antennas</b>	2 external omnidirectional 3 dBi antennas, ground plane type for wall mounting, 1 m of low loss cable for each antenna
<b>Security</b>	4 independent 64/128 bits WEP « Wired Equivalent Privacy » keys (alphanumeric or hexadecimal)
<b>Operating 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, direct communication (ad hoc) or from access point
<b>Administration</b>	From the serial port or through the radio WiFi Ethernet network (Telnet), firmware download for easy upgrade
<b>Operating systems</b>	Windows, Linux, UNIX as well as any operating system supporting TCP/IP
<b>Signaling</b>	TxD / RxD serial and WLAN radio activity and radio level on LEDs (inside enclosure)
<b>Power supply</b>	AC power supply from 85 to 264 VAC, 3 Watts maximum
<b>Environment</b>	Operating temperature: -25° to +80°C (RH 0-99%), storage: -40° to +70°C Antennas: -20°C to +55°C
<b>Standards</b>	Enclosure protection : EX II 2GD EExd IIC, IP 66, Zone 1 & 21 Antenna protection : EX II 2GD EExe II T6, IP 66, Zone 1 & 21 Emission NF EN 55022 residential, immunity NF EN 61000-6-2 industrial
<b>Dimensions, weight</b>	Enclosure weight: 11.1 Kg, antenna weight: 350 g Enclosure dimensions: 276 x 276 x 217 mm Antenna dimensions: 250 x 200 x 25 mm

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

## Reference to order

WL-COMETH-ATEX	Wireless RS232/RS422/RS485 device server over Ethernet IEEE 802.11b (WiFi) for explosive area, with Windows COM port redirector software (VIP), MODBUS/TCP data gateway, MODBUS/TCP gateway support, 85-264 VAC power supply, 2 external 3 dBi antenna, Zone 1 & 21
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