

Wireless RS232 / RS422 / RS485 serial device server for industrial automation



- Serial RS232 / RS422 / RS485 full duplex up to 250 Kbps
- 7-60 VDC wide range power supply
- IP30 metallic enclosure, 35 mm DIN rail mounting
- Point to Point (virtual cable) & multipoint modes
- Virtual COM port redirector (VIP)
- TCP Client / Server, UDP & MODBUS/TCP support

WL-IDA/S

IEEE 802.11b
WiFi 2.4 GHz

RF Module
certified



5-YEAR WARRANTY



WL-IDA/S 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-redirector enables distant serial equipments connected to the WL-IDA/S 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 OVERVIEW

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 signal available	RS232 mode: TxD, RxD, RTS, DTR, CTS, DCD, DSR, RI RS422/485 mode: -Tx, +Tx, -Rx, +Rx ⁽¹⁾
Connectors	SUB D9 male connector for RS232, 5-point terminal block for RS422/RS485 External antenna on RSMA connector
Protection	15KV ESD protection with HF signal filtering
IEEE 802.11b network	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, 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
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, Linux, UNIX as well as any operating system supporting TCP/IP
Signaling	TxD / RxD serial and WLAN radio activity and radio level on LEDs
Power supply	7-60 VDC wide range power supply
Consumption	3 Watts maximum
Environment	Operating temperature: -10° to +60°C (RH 0-99%), storage: -40° to +70°C
Standards	Emission NF EN 55022 residential, immunity NF EN 61000-6-2 industrial IP30 enclosure
Dimensions, weight	Weight: 271 g (with RJ54 Ethernet cable), dimensions: L: 110 x W: 72.5 x H: 32 mm

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

Reference to order

WL-IDA/S	Wireless RS232/RS422/RS485 device server over Ethernet IEEE 802.11b (WiFi), with Windows COM port redirector software (VIP), MODBUS/TCP data gateway, MODBUS/TCP gateway support, 7-60 VDC power supply, built-in 2 dBi antenna and RSMA connector for an external antenna, 35 mm DIN rail mounting
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