

# 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

<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>Connectors</b>	SUB D9 male connector for RS232, 5-point terminal block for RS422/RS485 External antenna on RSMA connector
<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, 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
<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>Security</b>	4 independent 64/128 bits WEP « Wired Equivalent Privacy » keys (alphanumerical 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
<b>Power supply</b>	7-60 VDC wide range power supply
<b>Consumption</b>	3 Watts maximum
<b>Environment</b>	Operating temperature: -10° to +60°C (RH 0-99%), storage: -40° to +70°C
<b>Standards</b>	Emission NF EN 55022 residential, immunity NF EN 61000-6-2 industrial IP30 enclosure
<b>Dimensions, weight</b>	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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ACKSYS : ZA Val Joyeux – 10 Rue des Entrepreneurs – F78450 VILLEPREUX (France) – Tel. +33 1 30 56 46 46  
Fax +33 1 30 56 12 95 - E-Mail : [sales@acksys.fr](mailto:sales@acksys.fr) - Web : [www.acksys.fr](http://www.acksys.fr) - N° NATO FA2 F6

Distribución: **ER-SOFT, S.A.** Email: [er@er-soft.com](mailto:er@er-soft.com), Tel: +34 916 408 408