WLg-IDA/S

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



Introduction

WLg-IDA/S gives access to any serial equipments from Windows, UNIX & Linux computers connected to your WiFi Ethernet TCP/IP network, makes it possible to communicate between two distant serial equipments through the network, or directly with a peer to peer connection (Ad-Hoc mode).

WLg-IDA/S is designed for industrial and transportation applications, it can be used for material handling, real-time information transmission, and inventory management.

The configuration of the device is achieved using the web browser installed on your computer; it also offers SNMP administration / configuration and an optional C-Key which allows quick and easy on-site replacement of the WLg-IDA/S unit, eliminating the need to reconfigure the replacement part or to use any other equipment.

WLg-IDA/S fulfills the most severe requirements in terms of operating environment: operating temperature from -25°C to +70°C, shock and vibration proof according to MIL-STD-810F standard, IP30 seal rating.



Serial Link Full RS232 / 422 / 485 serial interface, 250 Kbps RS232 mode: TxD, RxD, RTS, DTR, CTS, DCD, DSR, RI RS signals available RS422/485 mode: -Tx, +Tx, -Rx, +Rx (+RX and -RX signals can be polarized with jumpers) **Cables connection** SUB D9 male connector for RS signals, 5-point removable terminal block for RS422/485) Compliant to the IEEE 802.11a/b/g/h 2.4 / 5 GHz standards, multi-country Roaming support (IEEE 802.11d); Dynamic Frequency Selection (DFS) support provides flexible selection of best frequency to allow mobility among all existing IEEE 802.11a/b/g/h networks; WiFi network «ClearVoice» band provides non-overlapping channels for fast-speed data transmission; Transmission Power Control (TPC) offers flexibility to adjust RF output power, based on the ATHEROS's AR5414 (AR5006XS) chip-set, single channel rapid roaming (<50 ms) Radio data rate Up to 108 Mbps (Super AG mode) Channels 13 channels (b/g modes), 8 channels (a mode), 11 channels (h mode) Output power Transmitter +20 dBm (TPC) Receiver -92 dBm for IEEE 802.11 a/g and -95 dBm for IEEE 802.11b Sensitivity Antennas Two 2 dBi bi-band external antennas, RP-SMA connector OFDM: BPSK, QPSK, 16QAM, 64QAM Modulation DSSS: DBPSK, DQPSK, CCK Security 64/128 bits WEP, WPA-PSK, WPA2-PSK, IEEE 802.1x (RADIUS) Support for TCP Client/Server, DHCP Client, TELNET RFC2217 extension, Telnet Server, COM port re- director (VIP), multipoint Modes 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 Thanks to its built-in WEB interface, the setup of the device is achieved using any web browser installed on your computer (Internet Administration Explorer, Netscape, Mozilla ...), SNMP agent, ACKSYS NDM, TELNET from the serial link **Operating systems** Windows, Linux, UNIX as well as any operating system supporting TCP/IP Signaling Led display for power supplies, serial & WLAN activity, radio receive level Relay output warning: power failure, WLAN connection failure, Watchdog. Alarms 1 FORM B solid state relay, 60V 0.15A, contacts on removable clamp cage terminal Power supply Dual input, +9 to +36VDC 4.5 Watts typical Consumption **Dimensions & weight** Shock & vibration proof metal enclosure (L: 110 x W: 150 x H: 120 mm), 550 g MIL-STD-810F, 514.5 & 516.5 methods (shocks & vibrations) Standards EN 301489-17 & EN 61000-6-2 (CEM) Operating temperature: -25°C to +70°C (-4°F to 158°F), storage: -65°C to +100°C (-85°F to 212°F), Environment Humidity: 5% to 95% (non-condensing), IP 30 seal rating

Ordering references

Technical characteristics overview

WLg-IDA/S	Wireless RS232/RS422/RS485 device server over Ethernet IEEE 802.11 a/b/g/h (WiFi 2.4 / 5 GHz), with Windows COM port redirector software (VIP), MODBUS/TCP data gateway, MODBUS/TCP gateway support, dual 9-36 VDC power supply, built- in antenna and additional RP-SMA connector for a second antenna (diversity mode)
C-Key_M1	Save / Restore configuration key for the WLg-IDA/S
WLg-RF400MW	High power radio option (26 dBm, 400 mW)
WLg-FIX-PLQ	Panel fixing metallic plate

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