

# WiFi Access Point, 2-port Ethernet Bridge & WDS repeater for industrial automation



Top "C-Key" for quick configuration Save & Restore

- WiFi IEEE 802.11 a/b/g/h & super AG, up to 108 Mbps
- Security : WEP, WPA-PSK, WPA2-PSK & IEEE 802.1x RADIUS
- Web based configuration, SNMP administration
- Auto-sensing 10/100 Base TX network interface
- Dual DC power supply input (+9VDC to +36VDC), POE IEEE 802.3af for /NP
- Shockproof & vibration proof IP30 metal enclosure, DIN rail or panel mounting

## WLg-IDA/N [P]

IEEE 802.11a/b/g/h  
WiFi 2.4 / 5 GHz

Certified RF  
Module



5-YEAR WARRANTY



WLg-IDA/N features a WLAN interface coupled to a 2-port Ethernet 10/100 designed for harsh industrial environments and automotive applications. The unit is housed in a compact enclosure ready to be DIN rail or panel mounted.

The device offers many switch technology advancements, including auto MDI/MDIX crossover for easy plug and play application.

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/N unit, eliminating the need to reconfigure the replacement part or to use any other equipment.

WLg-IDA/N fulfils the most severe requirements in terms of operating environment: operating temperature from -20°C to +70°C, shockproof and vibration proof according to MIL-STD-810F standard, IP30 seal rating.

# TECHNICAL CHARACTERISTICS OVERVIEW

<b>Ethernet link</b>	2-port Ethernet 10/100 auto-sensing; RJ45 connectors; plug & play mode & auto MDI/MDIX cross-over
<b>WiFi network</b>	Compliant to the IEEE 802.11a/b/g/h 2.4 / 5 / 5.4 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; "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 AR5414 (AR5006XS) chip set
<b>Radio data rate</b>	Up to 108 Mbps (Super AG mode), TCP user data rate up to 44 Mbps
<b>Channels</b>	13 channels (b/g modes), 8 channels (a mode), 11 channels (h mode) Number of channels may vary depending on local laws.
<b>Output power</b>	Transmitter +20 dBm (Optional 26 dBm)
<b>Sensitivity</b>	Receiver -92 dBm for IEEE 802.11 a/g and -95 dBm for IEEE 802.11b
<b>Antenna</b>	One 2dBi 2.4 / 5 GHz antenna (RP-SMA connector) + one RP-SMA connector for an additional antenna (diversity mode)
<b>Modulation</b>	OFDM: BPSK, QPSK, 16QAM, 64QAM, DSSS: DBPSK, DQPSK, CCK
<b>Security</b>	64/128 bits WEP, WPA-PSK, WPA2-PSK, IEEE 802.1x (RADIUS supplicant & authenticator), MAC addresses filtering, SSID broadcast control
<b>Modes</b>	Access point to build a WiFi network infrastructure, Bridge to connect any Ethernet equipments to this network and MODBUS/TCP wireless gateway, repeater (WDS), infrastructure, AD-HOC, bridge router & rapid roaming (less than 50 mS) modes are supported
<b>Administration</b>	Built-in WEB interface; SNMP V2c agent; ACKSYS NDM (Networking Device Manager). ACKSYS unique "C-Key" allows for quick and easy on-site replacement of the WLg-IDA unit, eliminating the need to reconfigure the replacement part or to use any other equipment (optional)
<b>Operating systems</b>	Windows, Linux, UNIX as well as any operating system supporting TCP/IP
<b>Protocols</b>	Ethernet TCP/IP & UDP, MODBUS/TCP, Ethernet/IP, PROFINET ...
<b>Signalling</b>	Led display for power supplies, LAN on each port & WLAN activity, radio receive level
<b>Alarms</b>	Relay output warning: power failure, LAN or WLAN connection failure, Watchdog. 1 FORM B solid state relay, 60V 0.15A, contacts on removable clamp cage terminal
<b>Power supply</b>	Dual input, +9 to +36VDC, removable clamp cage terminal, POE IEEE 802.3af for the /NP model
<b>Consumption</b>	4.5 Watts typical
<b>Dimensions &amp; weight</b>	Shockproof & vibration proof metal enclosure (L: 110 x W: 150 x H: 120 mm), 570 g
<b>Standards</b>	MIL-STD-810F, 514.5 & 516.5 methods (shocks & vibrations) EN 301489-17 & EN 61000-6-2 (EMC)
<b>Environment</b>	Operating temperature: -20°C to +70°C (-4°F to 158°F), storage: -65°C to +100°C (-85°F to 212°F), Humidity: 5% to 95% (non-condensing), IP 30 seal rating

## Reference to order

WLg-IDA/N	WiFi Access Point, 2-port Ethernet Bridge & WDS Repeater (a/b/g/h), dual power input from +9VDC to +36VDC, shipped with 1 dual band 2 dBi omnidirectional (2.4 / 5 GHz) antenna and 1 meter of Ethernet RJ45 cable
WLg-IDA/NP	Same as above with POE IEEE 802.3af power supply
C-Key_M1	Save / Restore configuration key for the WLg-IDA/N
WLg-RF400MW	High power radio option (26 dBm, 400 mW)
WLg-FIX-PLQ	Panel fixing metallic plate
CAB-RJ45-1M	1 meter Ethernet RJ45 cable, straight

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