

# 3-in-1 combo: Rugged 8-port Ethernet switch, POE injector, WiFi AP / BRIDGE / REPEATER



## WLg-Switch

RF Module  
certified



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

5-YEAR WARRANTY

WLg-Switch is a 3-in-1 combo solution: 8-port managed Ethernet switch, 2.4 / 5 GHz WiFi ACCESS POINT / BRIDGE / REPEATER and 120W power injector (POE PSE) designed for harsh industrial environments and automotive applications. The unit is housed in a compact enclosure ready to be DIN rail or panel mounted.

Both Switch and power injector are manageable that make it possible to offer advanced configuration.

WLg-Switch can be managed using a web browser or SNMP; the "C-Key" allows for quick and easy on-site replacement of the WLg-SWITCH unit, eliminating the need to reconfigure the replacement part or to use any other equipment, giving it a high availability.

WLg-Switch fulfills the most severe requirements in terms of operating environment: operating temperature from  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $158^{\circ}\text{F}$ ), shockproof and vibration proof according to MIL-STD-810F standard, IP 30 seal rating.



# TECHNICAL CHARACTERISTICS

<b>Ethernet Switch</b>	8-port 10/100 Base TX Fast Ethernet interface, RJ45 connector, auto MDI/MDIX crossover, IEEE 802.3x full-duplex and half-duplex auto-adaptive, wire-speed reception and transmission, high performance lookup engine, automatic address learning and aging, 120W POE PSE feature according to IEEE 802.3.af
<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>	Two 2dBi 2.4 / 5 GHz antenna for 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, Bridge router, fast roaming, 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-SWITCH 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>Signaling</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 +72VDC, removable clamp cage terminal Device should be powered from a +48VDC power supply (130W) in the POE PSE mode
<b>Consumption</b>	10 Watts maximum (POE injector power consumption not included)
<b>Dimensions &amp; weight</b>	L: 110 mm x W: 50 mm x H: 151 mm (4.33 x 1.97 x 5.94 inch), weight 650g (22.9 oz)
<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

## References to order

WLg-Switch	3-in-1 combo: 8-Port Ethernet switch, WiFi Access Point / Ethernet Bridge / Repeater (IEEE 802.11a/b/g/h & super AG, 2.4 / 5 GHz operation), 8-port power injector (120W), shipped with two 2dBi 2.4 / 5 GHz antennas
C-Key_M1	Save / Restore configuration key for the WLg-Switch
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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