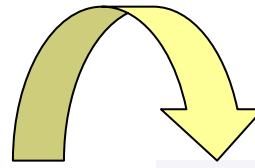


# Rugged high speed wireless 8-port Ethernet managed switch (WiFi IEEE 802.11 a / b / g / h)



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

## WLg-Switch

RF Module certified



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

5-YEAR WARRANTY

WLg-Switch is an 8-port 10/100 managed Ethernet switch over WLAN 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 is a managed layer 2 switch that offers many switch technology advancements, including auto MDI/MDIX crossover for easy plug and play application, and administrable POE PSE; 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.

WLg-Switch fulfills the most severe requirements in terms of operating environment: operating temperature from -20°C to +70°C (-4°F to 158°F), shockproof and vibration proof according to MIL-STD-810F standard, seal rating IP40.



# 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, 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>Sensibility</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 802.11x (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 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
<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>	Power supplies, LAN on each port & WLAN activity on LEDs
<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 for non POE PSE operation Device should be powered from a +48VDC (30 Watts) power supply in used in the POE PSE mode
<b>Consumption</b>	10 Watts maximum, up to 30 Watts in POE PSE mode
<b>Dimensions &amp; weight</b>	L: 110mm x W: 50mm x H: 151mm (4.33"x1.97"x5.94"), 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 40 seal rating

## References to order

WLg-Switch	8-Port Ethernet manageable switch over WLAN including Access Point, Ethernet Bridge & Repeater modes (WiFi IEEE 802.11a/b/g/h & super AG), shipped with two 2dBi 2.4 / 5 GHz antennas and the configuration "C-Key"
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