

KY-TGAP-W712+ Cyber-Secure Wireless

Industrial EN50155, Wireless Access Point, IEEE 802.11 a/b/g/n



- High Speed Air Connectivity, RF: IEEE 802.11 a/b/g/n
IP-67 Grade Waterproof Housing / Temperature Hardened
- 1 X 10/100/1000Base(T)X POE Powered Device (PD)
Supports up to 300 Mbps Link Speed
- High Security Ethernet: WEP/WPA/WPA-PSK (TKIP, AES) / WPA2
WPA2-PSK, 802.1x, IP / MAC Locking, Cyber Secure Wireless
- Supports Multiple SSID's - UP to 4 SSID's
- Supports Wireless Connection Status Monitoring
- Supports Wireless Load Balancing
- High Security Management: HTTPS
Event Notification: Email, SNMP Trap, Relay Output, & Syslog
- Supports: AP / Client / Bridge / AP-Client Modes and X-Roaming
1 KV Electrical - Surge & Spike Isolation for POE Powered Device (PD)
Supports External N-Type antenna Installation



NEMA TS-2, VCCI

Overview:

The KY-TGAP-W712+ is a High Security & High Performance Ethernet Wireless Access Point. Rugged design and engineering make this unit perfect for harsh environments and outdoor weather conditions. The KY-TGAP-W712+ is an ultra durable Wireless Access Point designed tough and equipped with IEEE 802.11 a/b/g/n wireless modules. The unit also comes equipped with a (1) Gigabit Ethernet port engineered with Power Over Ethernet (POE) / Powered Device (PD). The unit is engineered with fifth generation ASIC's and FPGA's, which results in very low power consumption and lower cost of operation. The unit may be configured as an AP / Client / Bridge / AP-Client Mode. The device is equipped for High Security Ethernet, and supports MAC Address / IP Address and Cyber Secure Wireless filtering protocols to prevent unauthorized intrusion or access. This product was designed for traffic and industrial controls where security is paramount. The device comes equipped with four (4) N-Type connectors, which allows for the installation of any N-Type antennas. This allows the installation engineer to chose the right antenna for the physical requirements of the job.

Designed for quick and easy installation. The KY-TGAP-W712+ comes equipped with an IEEE 802.3af Power Over Ethernet / (POE) port equipped as a Powered Device (PD). The device draws a mere nine (9) Watts of power - the lowest in its class. By using POE, you save the cost of running a separate power line. Installation is less expensive and faster with just a data line needed.

Specifications:

Kyland-USA WLAN Access Point Model	KY-TGAP-W712+	KY-TGAP-W712+/M12
Physical Ports		
10/100/1000Base-T(X) Port Auto MDI/MDIX	1- (RJ45)	1 (M12 8-pin A-coding)
PoE P.D. port	Fully compliant w th IEEE 802.3af Power Dev ce specificat on Over load & short circu t protect on Isolation Voltage: 1000 VDC min. Isolation Resistance : 10 ⁹ ohms min	

For Traffic, OSS, SCADA, and Enterprise Networks

Specifications

WLAN interface	
Operating Mode	AP/Dual Client /Bridge /AP-Client Mode
Antenna Connector	2 x External N-Type female antenna connector
Radio Frequency Type	DSSS, OFDM
Modulation	IEEE802.11a : OFDM with BPSK, QPSK, QAM, 64QAM IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM IEEE802.11n : BPSK, QPSK, 16-QAM, 64-QAM
Frequency Band	America / FCC : 2.412~2.462 GHz (11 channels) 5.180~5.240 GHz & 5.745~5.825 GHz (9 channels) Europe CE / ETSI : 2.412~2.472 Ghz (13 channels) 5.180~5.240 GHz (4 channels)
Transmission Rate	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps IEEE801.11n: up to 300Mbps
Transmit Power	802.11a: 12dBm ± 1.5dBm 802.11b: 17dBm ± 1.5dBm 802.11g: 15dBm ± 1.5dBm 802.11gn HT20: 13dBm ± 1.5dBm@150Mbps 802.11gn HT40: 12dBm ± 1.5dBm@300Mbps 802.11an HT20: 12dBm ± 1.5dBm@150Mbps 802.11an HT40: 12dBm ± 1.5dBm@300Mbps
Receiver Sensitivity	802.11a: -68dBm ±2dBm@54Mbps 802.11b: -85dBm ±2dBm@11Mbps 802.11g: -68dBm ±2dBm@54Mbps 802.11gn HT20: -68dBm ±2dBm@150Mbps 802.11gn HT40: -68dBm ±2dBm@300Mbps 802.11an HT20: -68dBm ±2dBm@150Mbps 802.11an HT40: -68dBm ±2dBm@300Mbps
Encrypt on Security	WEP: (64-bit ,128-bit key supported) WPA/WPA2 :802.11i(WEP and AES encrypt on) WPAPSK (256-bit key pre-shared key supported) 802.1X Authentication supported, Cyber Secure Wireless TKIP encrypt on
Wireless Security	SSID broadcast disable and enable / MAC & IP Address Filtering, Cyber Secure Wireless
Protocol Support	
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNMP, TCP, UDP, RADIUS, SNMP, STP, RSTP,
LED indicators	
Power indicator	3 x LEDs, PW1/PW2/PoE Green On : Power is on
10/100/1000Base-T(X) indicator	1 x LEDs, Green for port Link/Act
WLAN LED	1 x LEDs, Green for WLAN Link /Act
Power	
Input power	Dual Power Inputs. 12~48 VDC
Power consumption (Typ.)	<9 Watts
Physical Characteristics	
Enclosure	IP-67
Dimension (W x D x H)	310 (W) x 310(D) x 87 (H) mm / (12.2 x 12.2 x 3.4 inch)
Weight (g)	39 Kg

Specifications:

Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 85°C (-13 to 158°F)
Operating Humidity	5 to 97% Non-condensing
Regulatory approvals	
EMI	FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2)
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11, NEMA TS-2 Outdoor Compliant
Shock	IEC60068-2-27, EN61373
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6, EN61373
Rail Traffic	EN50155
Cooling	EN60068-2-1
Dry Heat	EN60068-2-2
Safety	EN 60950-1
Warranty	5 years

Ordering Information:

	Model Name	Description
Available Models	KY-TGAP-W712+_US	Industrial EN50155 IEEE 802.11 a/b/g/n wireless access point with 1x10/100/1000Base-T(X), PoE P.D., IP-67 grade, US Band, Cyber Secure Wireless
	KY-TGAP-W712+/M12_US	Industrial EN50155 IEEE 802.11 a/b/g/n wireless access point with 1x10/100/1000Base-T(X), PoE P.D., M12 Connector, IP-67 Grade, US Band, Cyber Secure Wireless

Optional Accessories:

- ☒ DR - 45 series : 45 Watt power supply
- ☒ DR - 75 series : 75 Watt power supply
- ☒ DR - 120 series : 120 Watt power supply
- ☒ WLAN RF Antenna Series
- ☒ RF Antenna Base series
- ☒ RF Cable series
- ☒ 6KV Surge Protection Device

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