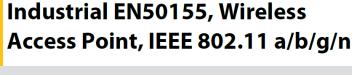
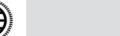


# KY-TGAP-W712+ **Cyber-Secure Wireless**





- 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 eqipped for High Security Ethernet, and supports MAC Address / IP Address and Cyber Secure Wireless filtering protocols to prevent unathorized 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 phyical 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		1
Auto MDI/MDIX	1- (RJ45)	(M12 8-pin A-coding)
	Fully compliant with IEEE 802.3af Power Device specification	
PoE P.D. port	Over load & short circu t protect on	
	Isolation Voltage: 1000 VDC min.	
	Isolation Resistance: 10 <sup>8</sup> ohms min	

For Traffic, OSS, SCADA, and Enterprise Networks

















WLAN interface		
Operating Mode	AP/Dual Client /Br dge /AP-Client Mode	
Antenna Connector	2 x External N-Type female antenna connector	
Radio Frequency Type	DSSS, OFDM	
	IEEE802.11a: OFDM wth BPSK, QPSK, QAM, 64QAM	
Modulation	IEEE802.11b: CCK, DQPSK, DBPSK	
	IEEE802.11g: OFDM wth BPSK, QPSK, 16QAM, 64QAM	
	IEEE802.11n: BPSK, QPSK, 16-QAM, 64-QAM	
	America / FCC: 2.412~2.462 GHz (11 channels)	
Frequency Band	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)	
	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps	
Transmission Rate	IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps	
	IEEE801.11n: up to 300Mbps	
	802.11a: 12dBm ± 1.5dBm	
	802.11b: 17dBm ± 1.5dBm	
Transmit Power	802.11g: 15dBm ± 1.5dBm 802.11gn HT20: 13dBm ± 1.5dBm@150Mbps	
Transmic Fower	802.11gn HT40: 13dBm ± 1.5dBm@130Mbps	
	802.11an HT20: 12dBm ± 1.5dBm@150Mbps	
	802.11an HT40: 12dBm ± 1.5dBm@300Mbps	
	802.11a: -68dBm ±2dBm@54Mbps	
	802.11b: -85dBm ±2dBm@11Mbps	
	802.11g: -68dBm ±2dBm@54Mbps	
Receiver Sensitivity	802.11gn HT20: -68dBm ±2dBm@150Mbps	
	802.11gn HT40: -68dBm ±2dBm@300Mbps	
	802.11an HT20: -68dBm ±2dBm@150Mbps	
	802.11an HT40: -68dBm ±2dBm@300Mbps	
	WEP: (64-bit ,128-bit key supported)	
	WPA/WPA2 :802.11i(WEP and AES encrypton)	
Encrypt on Security	WPAPSK (256-bit key pre-shared key supported)	
	802.1X Authent cation supported, Cyber Secure Wireless	
	TKIP encrypt on	
Wireless Secur ty	SSID broadcast disable and enable / MAC & IP Address Filtering, Cyber Secure Wireless	
Protocol Support		
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, 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) ind cator	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 consumpt on (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	
3 (3)	_	

















Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-40 to 85°C (-13 to 158°F)	
Operating Hum dity	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	
Vibrat on	IEC60068-2-6, EN61373	
Rail Traff c	EN50155	
Cooling	EN60068-2-1	
Dry Heat	En60068-2-2	
Safety	EN 60950-1	
Warranty	5 years	

## Ordering Information:

	Model Name	Description
	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
Available Models	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:**

Ø DR - 45 series : 45 Watt power supply

DR - 120 series: 120 Watt power supply

RF Antenna Base series

**6KV Surge Protection Device** 

 $\boxtimes$ DR - 75 series: 75 Watt power supply

WLAN RF Antenna Series

X RF Cable series

Distributed By:



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