

TGAP-W6610+ Series

Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n AP with 1x10/100/1000Base-T(X) PoE P.D., IP-67 grade

Features



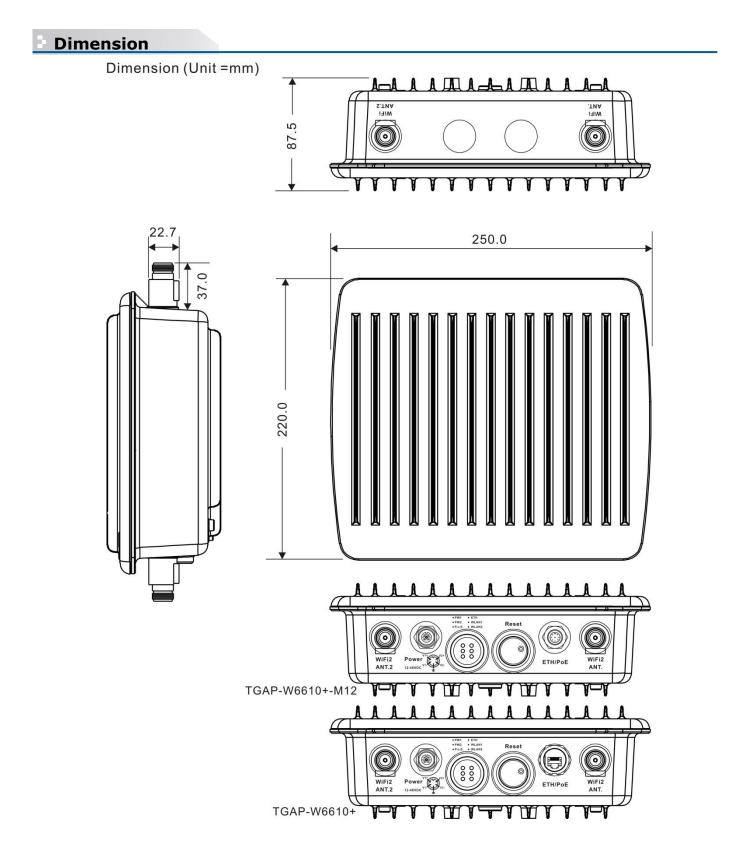
Introduction

TGAP-W6610+ is a reliable outdoor wireless Access Point with dual RF IEEE 802.11 a/b/g/n wireless modules and 1 Ethernet Gigabit port with PoE P.D.. It can be configured to operate in AP/ Client /Bridge /AP-Client Mode and supports MAC filters for security control. TGAP-W6610+ provides a dust-tight connection and four N-Type connectors that can install any N-Type antennas to extend communication distance. It is specifically designed for the toughest industrial environments. You are able to configure TGAP-W6610+ by WEB interface via LAN port or WLAN interface. In addition, TGAP-W6610+ also provides P.D. feature that is fully compliant with IEEE802.3af PoE P.D. specification to save the layout cost of power line. TGAP-W6610+ can be easily adopted in almost all kinds of applications and provides the most rugged solutions for managing your network in outdoor. Therefore, TGAP-W6610+ is one of the best communication solutions for wireless applications

Application

In practical operation of wireless access point, Windows utility (Open-Version) is supported. This utility is very helpful for you to search and configure IP of access point on the industrial network.

In addition, the wireless access point support various kinds of operation modes include AP/Dual Client /Bridge /AP-Client Mode.



Specifications

Ring WLAN Access Point	TGAP-W6610+	TGAP-W6610+-M12	
Model			
Physical Ports			
10/100/1000Base-T(X) Port	1	1	
Auto MDI/MDIX	(RJ45) Present at ETH	(M12 8-pin A-coding female)	
	Fully compliant with IEEE 802.3af Power Device sp	ecification	
PoE P.D. port	Over load & short circuit protection		
	Isolation Voltage: 1000 VDC min. Isolation Resistance : 10 ⁸ ohms min		
WLAN interface	Isolation Resistance : 10° onms min		
Operating Mode	Dual AP/Dual Client /Bridge /AP-Client Mode		
Antenna Connector			
Radio Frequency Type	4 x External N-Type female antenna connector		
Radio Frequency Type	DSSS, OFDM IEEE802.11a : OFDM with BPSK, QPSK, QAM, 64QAM		
Modulation	IEEE802.11b: CCK, DQPSK, DBPSK		
Modulation	IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM		
	IEEE802.11n : BPSK, QPSK, 16-QAM, 64-QAM America / FCC : 2.412~2.462 GHz (11 channels)		
	America / FCC: 2.412~2.462 GHz (11 channels) 5.180~5.240 GHz & 5.745~5.825 G	Hz (9 channels)	
Frequency Band	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 Mbp	s	
	IEEE801.11n: up to 300Mbps		
	802.11a: 12dBm ± 1.5dBm@54Mbps		
	802.11b: 17dBm ± 1.5dBm@11Mbps 802.11g: 16dBm ± 1.5dBm@54Mbps		
Transmit Power	802.11gn HT20: 15dBm ± 1.5dBm @MCS7		
	802.11gn HT40: 14dBm ± 1.5dBm @MCS7		
	802.11an HT20: 12dBm ± 1.5dBm @MCS7		
	802.11an HT40: 11dBm ± 1.5dBm @MCS7 802.11a : -76dBm ± 2dBm@54Mbps		
	802.11b : -85dBm ± 2dBm@11Mbps		
	802.11g : -76dBm ± 2dBm@54Mbps		
Receiver Sensitivity	802.11gn HT20:-75dBm \pm 2dBm@MCS7 802.11gn HT40:-72dBm \pm 2dBm@MCS7		
	802.11an HT20:-74dBm ± 2dBm@MCS7		
	802.11an HT40:-71dBm ± 2dBm@MCS7		
	WEP: (64-bit ,128-bit key supported) WPA/WPA2 :802.11i(WEP and AES encryption)		
Encryption Security	WPAPSK (256-bit key pre-shared key supported)		
	802.1X Authentication supported		
	TKIP encryption		
Wireless Security	SSID broadcast disable and enable		
Protocol Support			
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, U	DP, RADIUS, SNMP, STP, RSTP,	
LED indicators			
Power indicator	3 x LEDs, PW1/PW2/PoE Green On : Power is on and b	poting up	
10/100/1000Base-T(X) indicator	1 x LEDs, Green for port Link/Act		
WLAN LED	2 x LEDs, Green for WLAN Link /Act		
Power			
Input power	Dual Power Inputs. 12~48 VDC on M12 5-pin A-coding	female	
Power consumption (Typ.)	11Watt		
Physical Characteristic			
Physical Characteristic			
Enclosure	IP-67		

Weight (g)	3980g	
Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-25 to 70°C (-13 to 158°F)	
Operating Humidity	5 to 95% 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	
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	EN60950-1	
Warranty	5 years	

Ordering Information

Code Definition	Wireless-1 Mode	Wireless-2 Mode	10/100/1000 Base-T(X) Port Number	PoE Identification	Connector Type	
Option	 - 1: 802.11 b/g - 2: 802.11 a - 3: 802.11 a/b/g - 4: 802.11 b/g/n - 5: 802.11 a/n - 6: 802.11 a/b/g/n 	 - 1: 802.11 b/g - 2: 802.11 a - 3: 802.11 a/b/g - 4: 802.11 b/g/n - 5: 802.11 a/n - 6: 802.11 a/b/g/n 	-"1": 1 ports	+: PoE P.D.	None:RJ45 M12:M12 connector	

	Model Name	Description
Available Model TGA	TGAP-W6610+_US	Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n wireless access point with 1x10/100/1000Base-T(X), PoE P.D., IP-67 grade, EU band
	TGAP-W6610+_EU	Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n wireless access point with 1x10/100/1000Base-T(X), PoE P.D., IP-67 grade, EU band
	TGAP-W6610+-M12_US	Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n wireless access point with 1x10/100/1000Base-T(X), PoE P.D., M12 connector , IP-67 grade, EU band
	TGAP-W6610+-M12_EU	Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n wireless access point with 1x10/100/1000Base-T(X), PoE P.D., M12 connector , IP-67 grade, EU band

Packing List

- TGAP- W6610+ x 1
- Wall Mount Kit x 1
- CD x 1
- 2.4GHz/5GHz Antenna x 4
- Quick Installation Guide x 1
- Cable Gland x 1(TGAP-W6610+)

Optional Accessories

- DR-45 series : 45 Watts power supply
- DR-120 series : 120 Watts power supply
- RF Antenna Base series

- DR-75 series : 75 Watts power supply
- WLAN RF Antenna series
- RF Cable series