

TGAP-6620-M12 Series

Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n Wireless AP with 2x10/100/1000Base-T(X), M12 connector

5

Features

- Leading EN50155-compliant wireless access point for rolling stock application
- High Speed Air Connectivity: WLAN interface support up to 300 Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/ WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- Support X-Roaming < 60ms</p>
- Support external SMA antenna installation
- Support AP/Client /Bridge /AP-Client Mode
- Support Multiple-SSID to 4 SSID
- Support MAC Filter
- Dual Gigabit Ethernet ports support Ethernet redundant mode (Recovery time < 10ms) and switch mode in M12 connector (A-coding)
- Wireless connecting status monitoring
- > 1KV isolation for PoE P.D. port for TGAP-6620+-M12
- Secured Management by HTTPS
- Event Warning by Syslog, Email, SNMP Trap, and Relay output
- Rigid IP-40 housing design
- Wall-mount enabled























TGAP-6620-M12 is a reliable WLAN Access Point with 2 Ethernet Gigabit ports and dual RF in IEEE 802.11 a/b/g/n wireless modules. It can be configured to operate in Dual AP/Dual Client /Bridge /AP-Client Mode. In combination with its IP-40 design and the superb management functionality, TGAP-6620-M12 provides a dust-tight connection and reverse SMA-type connectors, that can install any reverse SMA-type antennas to extend communication distance. It is specifically designed for the toughest industrial environments. You are able to configure TGAP-6620-M12 by WEB interface via LAN port or WLAN interface. TGAP-6620-M12 can be easily adopted in almost all kinds of applications and provides the most rugged solutions for managing your network in outdoor. In addition, TGAP-6620+-M12 also provides P.D. feature on ETH2 which is fully compliant with IEEE802.3af PoE P.D. specification. Therefore, TGAP-6620-M12 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.

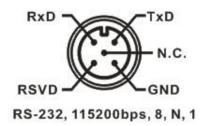
In addition, the wireless access point support various kinds of operation modes include Dual AP/Dual Client /Bridge /AP-Client Mode.

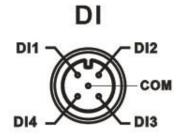
Pin Definition

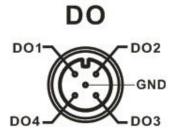
Relay Output



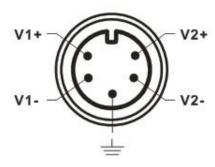
Console



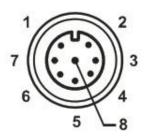




Power

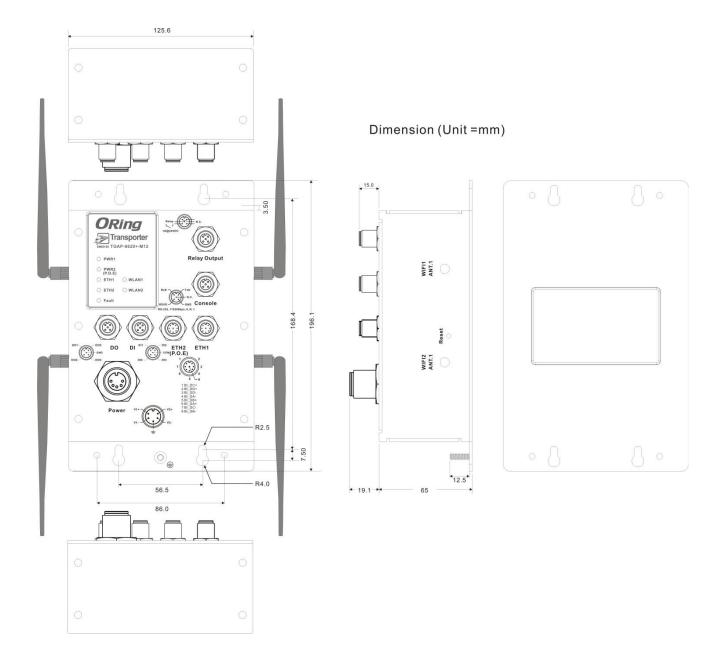


Ethernet



1 BI_DC+ 2 BI_DD+ 3 BI_DD-4 BI_DA-5 BI_DB+ 6 BI_DA+ 7 BI_DC-

Dimension

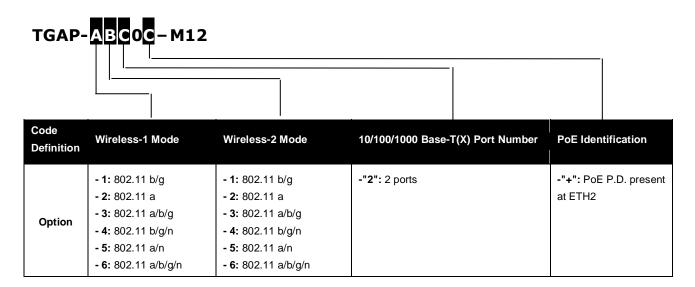


Specifications

ORing WLAN Access Point Model	TGAP-6620-M12	TGAP-6620+-M12
Physical Ports		
10/100/1000Base-T(X) Ports in M12		2(Present at ETH2
Auto MDI/MDIX (8-pin A-coding)	2	Fully compliant with IEEE 802.3af PoE P.D)
Auto Fibigribia (o piir A county)	2(DI x 4 and DO x 4):	Tany compliant with IEEE 002.541 F0E F1.0)
	Dry Contact:	
DIDO port in M12 (5-pin A-coding)	On: short to GND, Off: open	
	Wet Contact (DI to COM/GND):	
	On: 0 to 3VDC, Off: 10 to 30VDC	
RS-232 Console port in M12	115200 P N 1	
(5-pin A-coding)	115200, 8 ,N ,1	
Relay port in M12 (5-pin A-coding)	1A@24VDC	
relay pore in 1112 (5 pin // county)	17627750	
WLAN interface		
Operating Mode	Dual AP/Dual Client /Bridge /AP-Client Mode	
Antenna Connector	4 x External reverse SMA-type antenna connecto	or
Radio Frequency Type	DSSS, OFDM	O.M.
	IEEE802.11a: OFDM with BPSK, QPSK, QAM, 64	QAM
Modulation	IEEE802.11b: CCK, DQPSK, DBPSK	
	IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 6 IEEE802.11n: BPSK, QPSK, 16-QAM, 64-QAM	34QAI ^N I
	America / FCC: 2.412~2.462 GHz (11 channels	
	5.180~5.240 GHz & 5.745~5.	
Frequency Band	Europe CE / ETSI : 2.412~2.472 Ghz (13 channe	•
	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 / 5	54 Mbps
	IEEE801.11n: up to 300Mbps	
	802.11a: 12dBm ± 1.5dBm	
	$802.11b: 18dBm \pm 1.5dBm$	
	802.11g: 15dBm ± 1.5dBm	
Transmit Power	802.11gn HT20: 13dBm ± 1.5dBm@150Mbps	
	802.11gn HT40: $12dBm \pm 1.5dBm@300Mbps$ 802.11an HT20: $12dBm \pm 1.5dBm@150Mbps$	
	802.11an HT40: 12dBm \pm 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)	
Enomination Cost	WPA/WPA2 :802.11i(WEP and AES encryption)	
Encryption Security	WPAPSK (256-bit key pre-shared key supported) 802.1X Authentication supported	1
	TKIP encryption	
Wireless Security	SSID broadcast disable and enable	
,		
Protocol Support		
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP,	TCP, UDP, RADIUS, SNMP, STP, RSTP,
LED indicators		
	2 x LEDs,	
Power indicator	PW1:Green for DC Power on	
	PW2:Green for DC Power on or power by PoE	
10/100/1000Base-T(X) indicator	2 x LEDs, Green for port Link/Act	
WLAN LED	2 x LEDs, Green for WLAN Link /Act	
Fault	1 x LED, Red for Ethernet link down or power do	wn indicator

Fault contact			
Relay	Relay output to carry capacity of 1A at 24VDC(5-pin M12 A-coding)		
Power			
Input power	Dual Power Inputs. 12~48 VDC		
Power consumption (Typ.)	11Watts	11.5Watts	
Physical Characteristic			
Enclosure	IP-40		
Dimension (W x D x H)	125.6(W) x 65(D) x 196.1(H) mm (4.94 x 2.55 x 7.72 inch.)		
Weight (g)	965g	970g	
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	5 to 95% Non-condensing	
Regulatory approvals			
EMI	FCC Part 15, CISPR (EN55022) c	FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4)	
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	IEC60068-2-27, EN61373	
Free Fall	IEC60068-2-31		
Vibration	IEC60068-2-6	IEC60068-2-6	
Safety	EN60950-1		
Warranty	5 years		

Ordering Information



	Model Name	Description
Available Model	TGAP-6620-M12_US	Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000Base-T(X), US band
	TGAP-6620-M12_EU	Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000Base-T(X), EU band
	TGAP-6620+-M12_US	Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000Base-T(X), 1-port PoE P.D, US band
	TGAP-6620+-M12_EU	Industrial EN50155 Dual RF in IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000Base-T(X), 1-port PoE P.D, EU band

Packing List

• TGAP- 6620-M12 x 1

• CD x 1

Quick Installation Guide x 1

Wall Mount Kit x 1

• 2.4GHz/5GHz Antenna x 4

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