TGAR-1062-4G-M12 series

Industrial EN50155 IEEE 802.11 a/b/g/n 4G LTE Cellular Router With 2x10/100/1000Base-T(X), M12 connector



Features

- Leading EN50155-compliant wireless access point for rolling stock application
- High Speed Air Connectivity: WLAN interface support up to 300Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/ WPA2/WPA2-PSK(TKIP, AES)/802.1X Authentication supported
- Secured Management by HTTPs
- > Various kind of WAN Connection Type supported: Dynamic/Static IP, PPPoE, Modem Dial Up
- > IP table configurable to prevent access from unauthorized IP address
- Support VPN for secured network connection (Open VPN, PPTP VPN)
- Support NAT Setting (Virtual Server, Port Trigger, DMZ, UPnP)
- Support DHCP forwarding through PPTP function
- > 4G LTE Modem dial up included
- Dual redundant Ethernet ports support Ethernet redundant mode (Recovery time < 10ms) and switch mode in M12 connector (A-coding)
- GPS support for GPS model.
- > 1KV isolation for PoE P.D. port for PoE model.
- Event Warning by Syslog, Email, SNMP Trap and Relay output
- Ultra rugged enclosure for toughest industrial usages
- Wall mounting enabled















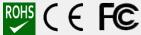








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Introduction

ORing's Transporter™ series cellular router is designed for industrial and rolling stock wireless applications, such as vehicle, and railway applications. TGAR-1062-4G-M12 is reliable IEEE802.11 a/b/g/n router with 2 ports LAN which is fully compliant with EN50155 certification. It could be configured to operate in 3 modes of routing function: Dynamic/Static IP route, PPPoE authentication, and Cellular modem dial up. Users can set up WLAN environment to fulfill demands of various applications rapidly by dialing up cellular modem. TGAR-1062-4G-M12 EN50155 cellular VPN router use M-series connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. In addition, TGAR-1062+-4G-M12 also provides P.D. feature on ETH2 which is fully compliant with IEEE802.3af PoE P.D. specification and TGAR-1062+-4GS-M12 supports GPS function. Therefore, TGAR-1062-4G-M12 is one of the most reliable choices for rolling stock applications on the wireless network

Application

In TGAR-1062-4G-M12, there are 3 modes of routing functions supported: Dynamic/Static IP route, PPPoE dial up, and Modem dial up. TGAR-1062-4G-M12 also support NAT, VPN and Back up functions. You can build up the wireless network and connect to the Internet easily.

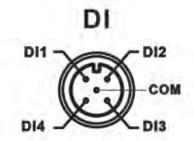
Pin Definition

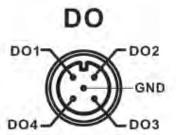
Relay Output



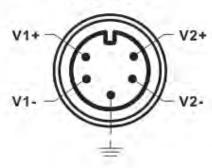
Console



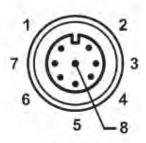






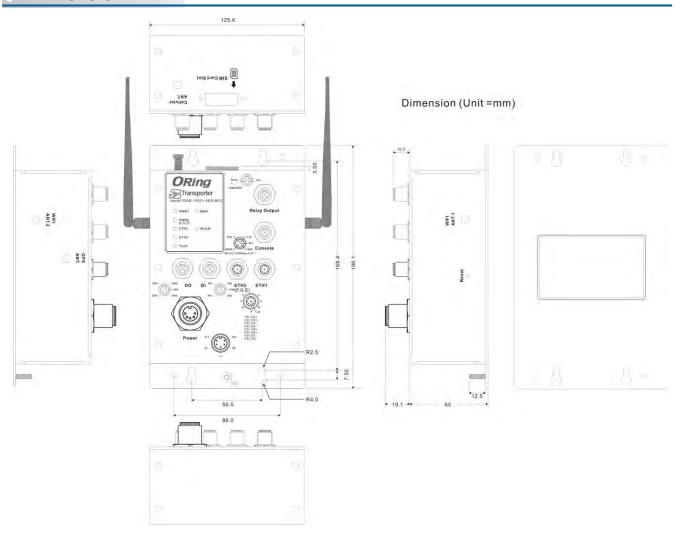


Ethernet



- 1 BI DC+
- 2BI DD+
- 3 B1 DD-
- 4 BI DA-
- T DI_DA
- 5 BI_DB+ 6 BI_DA+
- 7 BI DC-
- 8 BI DB-

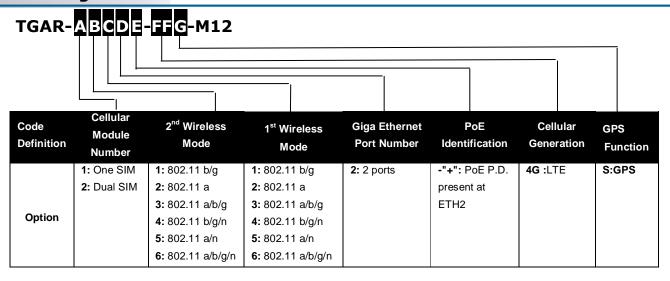
Dimension



ORing EN50155 WLAN Access Point Router Model	TGAR-1062-4G-M12	TGAR-1062+-4G-M12	TGAR-1062+-4GS-M12	
Physical Ports				
10/100/1000Base-T(X) Ports in M12		2(Prese	nt at ETH2	
Auto MDI/MDIX (8-pin A-coding)	2(Present at ETH2 Fully compliant with IEEE 802.3af PoE P.D.)			
DIDO port in M12 (5-pin A-coding)	2(DI x 4 and DO x 4): Dry Contact: 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 (5-pin A-coding)	115200, 8 ,N ,1			
Relay port in M12 (5-pin A-coding)	1A@24VDC			
SIM Card Slot	1			
GPS (-4GS model only)				
Antenna Connector	1 x External reverse SMA anter	nna connector		
Frequency	1575.42MHz			
WLAN Interface				
Antenna Connector	2 x Reverse SMA Female			
Radio Frequency Type Modulation	DSSS, OFDM IEEE802.11a : OFDM with BPSK, OPSK, 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@54Mbps 802.11b: 17dBm ± 1.5dBm@11Mbps 802.11g: 16dBm ± 1.5dBm@54Mbps 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			
Receiver Sensitivity	802.11a: -76dBm ± 2dBm@54Mbps 802.11b: -85dBm ± 2dBm@11Mbps 802.11g: -76dBm ± 2dBm@54Mbps 802.11gn HT20:-75dBm ± 2dBm@MCS7 802.11gn HT40:-72dBm ± 2dBm@MCS7 802.11an HT20:-74dBm ± 2dBm@MCS7 802.11an HT20:-71dBm ± 2dBm@MCS7			
Encryption Security	WEP: (64-bit ,128-bit key supported) WPA/WPA2 :802.11i(WEP and AES encryption) WPAPSK (256-bit key pre-shared key supported) 802.1X Authentication supported TKIP encryption			
Wireless Security	SSID broadcast disable			
Cellular Interface				
Cellular Standard	GSM / GPRS/ EGPRS/ EDGE / V	VCDMA / HSDPA / HSUPA /HSPA+ /LT	E	
Antenna Connector	1 x SMA Female			
Band Option	America(US) LTE:			

COMMENSION COM	T	CDMA/EV/DO "		
BIRTSH-SEPAN-BISEAN ASPA - AND - HERAL SEMPREST-DEE SEROPACE BIRTSH-SEPAN - BIRTSH-SEPAN				
CSM/PRESE/DGE				
REMONDATION PROPERTY				
Europe(EU) LTC				
LTE				
IMMSA-SSPAM-SIGNA-MSRA-V DC-HEPRA				
BOD/BIO/POD/1900/2100 MHz				
Protocol Support				
Protocol ARP,BDOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, LIDP, RADIUS, SNAMP, PRPAE LED Indicators 2 x LEDs. Power Indicator 2 x LEDs. PW1 Green for DC Power on PW2 Green for DC Power on PW2 Green for DC Power on PW2 Green for DC Power on PW3 Green for DC Power Or DC Link/Act WAN LED 1 x LED, Green for DC Power on PW3 Green for M2 Green for DC Power on Pw3 Green for M2 Green for M2 Green for DC Power Or M2 Green for DC Power DC P			12	
Protocol A&P,BOOTP, DNC, NTS, NTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SMMP, PPPoE		850/900/1800/1900 MHz		
Power Indicators	Protocol Support			
Power Indicator	Protocol	ARP, BOOTP, DHCP, DNS, HTTP,	IP, ICMP, SNTP, TCP, UDP, RADIUS,	SNMP, PPPoE
Power Indicator	LED Indicators			
PW2:Green for DC Power on or power by PoE		2 x LEDs,		
10/100/1000Base-T(X) port Indicator	Power Indicator	PW1: Green for DC Power on		
WILAN LED			<u> </u>	
### Fault Indicator	10/100/1000Base-T(X) port Indicator	2 x LEDs, Green for port Link/Act		
Fault Indicator	WLAN LED	1 x LED, Green for WLAN Link/Act		
Fault Contact Relay Relay output to carry capacity of 3A at 24VDC Power Power Consumption (Typ.) 9.5W 10.5 Watts 10.7 Watts Power Consumption (Typ.) 9.5W 10.5 Watts 10.7 Watts Overload Current Protection Present Reverse Polarity Protection Present 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 2.85 x 7.72 inch.) Weight (g) 968g 977g 977g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) Operating Temperature -25 to 70°C (-13 to 158°F) 977g 977g Operating Humidity 5% to 95% Non-condensing FED 1000-4-2 (ESD) (EN 61000-4-2 (ESD) (EN 61000-4-2 (ESD) (EN 61000-4-3 (RS), EN 61000-4-4 (EFT), EN 61000-4-5 (Surge), EN 61000-4-6 (CS), EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (EFT), EN 61000-4-5 (Surge), EN 61000-4-6 (CS), EN 61000-4-3 (EN 61000-4-1 (ESD), EN 61000-4-4 (EFT), EN 61000-4-5 (Surge), EN 61000-4-6 (ESD), EN 61000-4-7 (EN 610000-4-7 (EN 61000-4-7 (EN 61000-4-7 (EN 61000-4-7 (EN 61000-4-7 (EN 61000-4-7 (EN 6	WAN LED	1 x LEDs, Green for functioning normal		
Relay Relay output to carry capacity of 3A at 24VDC Power Redundant Input Power Dual Power Inputs. 12-48 VDC on M23 connector (24 VDC Typ.) Power Consumption (Typ.) 9.5W 10.5 Watts 10.7 Watts Overload Current Protection Present Reverse Polarity Protection Present 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) 968g 977g 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), EN61000-4-2 (ESD), EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61373 Free Fall IEC60068-2-3.1 Vibration IEC60068-2-6, EN61373 Free Fall EN60068-2-1 </td <td>Fault Indicator</td> <td colspan="2">1 x LED, Red for Ethernet link down or power down indicator</td>	Fault Indicator	1 x LED, Red for Ethernet link down or power down indicator		
Power Redundant Input Power Dual Power Inputs. 12-48 VDC on M23 connector (24 VDC Typ.) Power Consumption (Typ.) 9.5W 10.5 Watts 10.7 Watts Overload Current Protection Present Reverse Polarity Protection Present Physical Characteristic 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) 968g 977g 977g Environmental 40 to 85°C (-40 to 185°F) 977g 977g Operating Temperature -40 to 85°C (-40 to 185°F) 95% Non-condensing Regulatory Approvals FCC Part 15, CISPR (ENS5022) class A. ENS0155 (ENS0121-3-2) EMS EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-48, EN61000-4-11 Shock IEC60068-2-27, EN61373 Free Fall IEC60068-2-31 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN6008-2-1 Dry Heat EN60950-1	Fault Contact			
Redundant Input Power Dual Power Inputs. 12~48 VDC on M23 connector (24 VDC Typ.) Power Consumption (Typ.) 9.5W 10.5 Watts 10.7 Watts Overload Current Protection Present Reverse Polarity Protection Present Physical Characteristic 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) 968g 977g 977g Environmental 40 to 85°C (-40 to 185°F) 977g 977g Operating Temperature -40 to 85°C (-40 to 185°F) 95% to 95% Non-condensing Regulatory Approvals FM 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 IEC60068-2-31 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60950-1	Relay	Relay output to carry capacity of	f 3A at 24VDC	
Power Consumption (Typ.) 9.5W 10.5 Watts 10.7 Watts	Power			
Power Consumption (Typ.) 9.5W 10.5 Watts 10.7 Watts	Redundant Input Power	Dual Power Inputs, 12~48 VDC	on M23 connector (24 VDC Tvp.)	
New Protection Present Present Present	·	<u> </u>	T	10.7 Watts
Present 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) 968g 977g 977g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) 977g 977g Operating Temperature -25 to 70°C (-13 to 158°F) 977g 977g Operating Humidity 5% to 95% Non-condensing Regulatory Approvals FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2) EMS EMS EN610000-4-2 (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 IEC60068-2-6, EN61373 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60950-1			10.5 Watts	TO. / Watts
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Enclosure	-	Present		
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.)	Physical Characteristic			
Weight (g) 968g 977g 977g Environmental Storage Temperature -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F) Operating Temperature -25 to 70°C (-13 to 158°F) -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 IEC60068-2-31 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60950-1	Enclosure	IP-40		
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 IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1	Dimension (W x D x H)	125.6(W) x 65(D) x 196.1(H) m	m (4.94 x 2.55 x 7.72 inch.)	
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 IEC60068-2-31 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1	Weight (g)	968g	977g	977g
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 IEC60068-2-31 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1	Environmental			
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 IEC60068-2-31 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1	Storage Temperature	-40 to 85°C (-40 to 185°F)		
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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 IEC60068-2-31 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1		· · · · · · · · · · · · · · · · · · ·		
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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 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1		FCC Part 15 CISPD (ENESCOS)	Mass A FN50155 (FN50121-2-2)	
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Free Fall IEC60068-2-31 Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1	Shock			
Vibration IEC60068-2-6, EN61373 Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1				
Rail Traffic EN50155 Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1				
Cooling EN60068-2-1 Dry Heat EN60068-2-2 Safety EN60950-1				
Dry Heat EN60068-2-2 Safety EN60950-1				
Safety EN60950-1	-			
	-			
Warranty 5 years	Safety			
	Warranty	5 years		

Ordering Information



	Model Name	Description
	TGAR-1062-4G-M12_US	Industrial EN50155 IEEE 802.11 a/b/g/n 4G LTE cellular router with 2x10/100/1000Base-T(X), M12 connector, US band
	TGAR-1062+-4G-M12_US	Industrial EN50155 IEEE 802.11 a/b/g/n 4G LTE cellular router with 2x10/100/1000Base-T(X), M12 connector, 1-port PoE P.D, US band
Available TGAR-1062+-4GS-M12_US Model	Industrial EN50155 IEEE 802.11 a/b/g/n 4G LTE cellular GPS router with 2x10/100/1000Base-T(X), M12 connector, 1-port PoE P.D, US band	
	TGAR-1062-4G-M12_EU	Industrial EN50155 IEEE 802.11 a/b/g/n 4G LTE cellular router with 2x10/100/1000Base-T(X), M12 connector, EU band
TGAR-1062+-4G-M	TGAR-1062+-4G-M12_EU	Industrial EN50155 IEEE 802.11 a/b/g/n 4G LTE cellular router with 2x10/100/1000Base-T(X), M12 connector, 1-port PoE P.D, EU band
	TGAR-1062+-4GS-M12_EU	Industrial EN50155 IEEE 802.11 a/b/g/n 4G LTE cellular GPS router with 2x10/100/1000Base-T(X), M12 connector, 1-port PoE P.D, EU band

Packing List

- TGAR-1062(+)-4G(S)-M12 x 1
- CD x 1

Quick Installation Guide x 1

- 2.4GHz/5GHz Antenna x 2
- Cellular LTE Antenna x 1

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