

TAR-620-M12-MV

Industrial EN50155 IEEE 802.11 a/b/g/n 3G Cellular Router With 2x10/100Base-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
- > 3.5G HSDPA Modem dial up included
- Dual redundant Ethernet ports support Ethernet redundant mode (Recovery time < 10ms) and switch mode in M12 connector (D-coding)
- > 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



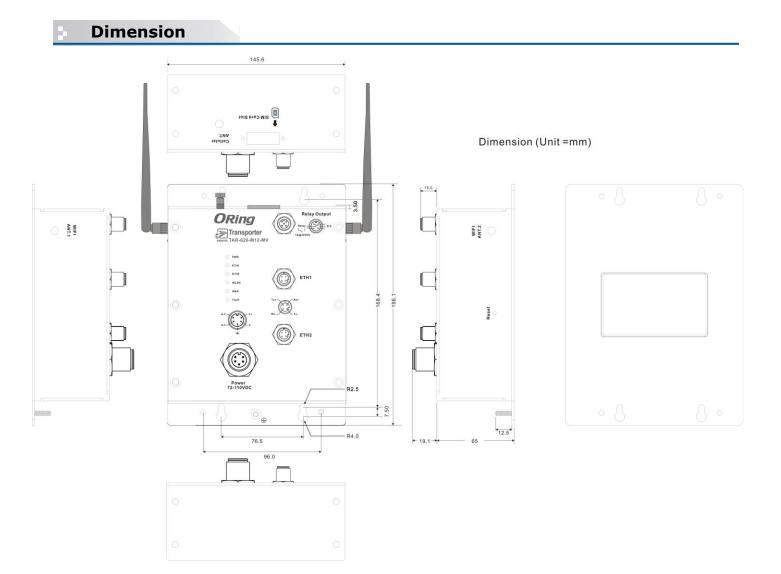


Introduction

ORing's Transporter[™] series cellular router is designed for industrial and rolling stock wireless applications, such as vehicle, and railway applications. TAR-620-M12-MV 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. TAR-620-M12-MV 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, TAR-620-3G-M12 also provides 60Vdc to 160Vdc power input by M23 connector. Therefore, TAR-620-M12-MV is one of the most reliable choices for rolling stock applications on the wireless network.

Application

In TAR-620-M12-MV, there are 3 modes of routing functions supported: Dynamic/Static IP route, PPPoE dial up, and Modem dial up. TAR-620-M12-MV also support NAT, VPN and Back up functions. You can build up the wireless network and connect to the Internet easily.



ORing EN50155 WLAN Access Point Router Model	TAR-620-M12-MV
Physical Ports	
10/100Base-T(X) Ports in M12 Auto MDI/MDIX (4-pin D-coding)	2
SIM Card Slot	1
WLAN Interface	
Antenna Connector	2 x External reverse SMA-type 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
	America / FCC : 2.412~2.462 GHz (11 channels) 5.180~5.240 GHz & 5.745~5.825 GHz (9 channels)
Frequency Band	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@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 @MCC37
	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 ± 2dBm@MCS7 802.11gn HT40:-72dBm ± 2dBm@MCS7
	802.11an HT20:-74dBm ± 2dBm@MCS7
	802.11an HT40:-71dBm ± 2dBm@MCS7
	WEP: (64-bit ,128-bit key supported)
Encryption Security	WPA/WPA2 :802.11i(WEP and AES encryption) WPAPSK (256-bit key pre-shared key supported)
Encryption Security	802.1X Authentication supported
	TKIP encryption
Wireless Security	SSID broadcast disable
Cellular Interface	
Antenna Connector	1 x External reverse SMA-type antenna connector
Cellular Standard	GSM / GPRS/ EGPRS/ EDGE / WCDMA / HSDPA / HSUPA Dual-band : HSUPA 1900/2100 MHz
Band Option	Quad-band : GSM/GPRS/EDGE 850/900/1800/1900 MHz
Sana Option	WCDMA/HSDPA 850/900/1900/2100 MHz
Protocol Support	
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, PPPoE
LED Indicators	
	1 x LED,
Power Indicator	PWD:Green for DC Power on
10/100Base-T(X) Indicator	2 x LEDs, Green for port Link/Act
WLAN LED	1 x LED, Green for WLAN Link/Act
WAN LED	1 x LED, Green for Cellular modem Link/ Act
	1 x LED, Red for Ethernet link down or power down indicator

Relay	Relay output to carry capacity of 1A at 24VDC
Power	
Input Power	Single Power Inputs. 72-110 VDC (43~160 VDC) on 5-pin 7/8" male a-coding connector
Power Consumption (Typ.)	12 Watts Max.
Overload Current Protection	Present
Reverse Polarity Protection	Present
Physical Characteristic	
Enclosure	IP-40
Dimension (W x D x H)	143(W) x 65(D) x 196.1(H) mm (5.62 x 2.55 x 7.72 inch.)
Weight (g)	1550g
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	IEC60068-2-31
Vibration	IEC60068-2-6, EN61373
Rail Traffic	EN50155
Cooling	EN60068-2-1
Dry Heat	EN60068-2-2
Safety	EN60950-1

	Model Name	Description
Available Model	TAR-620-M12-MV_US	Industrial EN50155 IEEE 802.11 a/b/g/n 3G cellular router with 2x10/100Base-T(X), M12 connector, US band
	TAR-620-M12-MV_EU	Industrial EN50155 IEEE 802.11 a/b/g/n 3G cellular router with 2x10/100Base-T(X), M12 connector, EU band

Packing List

- TAR-620-M12-MV x 1
- CD x 1

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Quick Installation Guide x 1

- 2.4GHz/5GHz Antenna x 2
- 3G 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

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- WLAN RF Antenna series
- RF Cable series