

IWMR-3003

Industrial Multifunction VPN Router w/up to 2x WiFi 11ac + up to 2 LTE 4G + 4 serial ports + 3 Gigabit Ethernet (incl.1 PD) w/Load Balancing, VPN, Protocol Gateway, Storage**; 24V / HV input

- Up to 2 concurrent WIFI 11ac and redundancy (1L-2AC model)
- Up to 2 concurrent modems for 3G/4G LTE Link & GPS (2L-1AC model/4 SIMs)
- Built-in 3 Gigabit Ethernet ports (2LAN+1WAN or 3LAN or 3 WAN) (incl. 1PD)
- Dual radio for 802.11ac/a/b/g/n with concurrent 5GHz & 5GHz bands up to 2.6Gbps Wi-Fi bandwidth (2AC model)
- MIMO technology 3T3R; SMA type up to 6 external antennas
- Air teaming** for Wi-Fi high-sustainability and aggregated bandwidth
- VPN router for Multi-site VPN, OpenVPN, L2TP over IPsec, IPsec, PPTP**, L2 over GRE, IPGRE
- Load Balancing built-in 5 mechanism
- Optional EMMC Flash storage on-board**
- Support roaming with 802.11k & v
- Supports AP/Bridge/Client/MESH modes
- Support 802.11s Wireless Mesh Network
- Support NAT and Firewall
- Support Modbus gateway
- Support 2 RS422/RS485 ports with 2.5KV isolation or 2/4x RS232 ports (RJ45 model only)
- Dual input range from 9V to 56VDC (24V model); Dual Input 24V-30VDC (24V-IGN model); Single input power 90~305VAC/120~430VDC (HV model) (RJ45 model)
- Vehicle E-marking* certificate
- Wi-Fi & LTE graphic signal strength
- Editable login page of captive portal for hot-spot application
- USB port to backup, restore the configuration file and upgrade firmware; Dual image firmware*
- ITxPT compliant w/ ignition function*









M12 model

RJ45 model

















OVERVIEW

Lantech IWMR-3003 series is a next generation industrial multifunction VPN router w/up to 2x 802.11ac Wi-Fi + up to 2x LTE modem + 3 x Gigabit Ethernet (incl.1 PD) +4 serial ports (RJ45 model only) that supports advanced function of VPN, Load-Balancing (Basic & Full Package), EMMC Flash Storage**, Protocol gateway(Modbus), Wi-Fi roaming and LTE quad SIM fail-over for industrial applications. The dual core CPU with 1.6GHz + 256M flash enables the router to multi-task smoothly.

Dual concurrent LTE design 4G/3G for load-balancing

With dual LTE module design (2L model), 4 SIM card slots, IWMR-3003 can allow auto-swap, failover & failback between multiple service providers for real non-stop connection. With concurrent LTE modules, it can also allocate bandwidth by "Load Balancing with 8 schemes between multiple WANs.

With one mobile LTE module, 2 SIM card slots, IWMR-3003

provides redundant link between two service providers.

Both GPS and Russian GLONASS systems are supported.

Optional EMMC Flash storage**

The optional EMMC flash storage on router can offer 8G/16G/32G capacity.

IEEE 802.11ac dual band radio up to 2.6Gbps bandwidth

With IEEE 802.11ac capability, IWMR-3003 can operate either 5GHz or 2.4GHz bands, offering the maximum speed of 2.6Gbps bandwidth (1.3Gbps per 1AC). It is also compatible with 802.11g/n that can work with 2.4GHz for longer range transmission.

The Wi-Fi 11ac supports AP/Bridge/AP Client modes can be diverse for most of wireless application. Working with load-

Datasheet Version 1.3



balancing "Priority" mode, the AP client can enable router to transmit on Wi-Fi with first priority.

Air teaming** for wireless high-sustainability and aggregated bandwidth

The innovative Air-teaming protection can combine multiple wireless links to achieve both high-sustainability and aggregated bandwidth. High sustainability can keep the network traffic alive even one link is down or severely interfered. Aggregated bandwidth can bind two link channels to provide the maximum throughput.

MIMO technology with 3T3R and SMA type connectors
Lantech IWMR-3003 series adapts MIMO technology with
smart antenna transmission and reception for 3T3R. With six
external detachable omni connectors and optional antennas,
IWMR-3003 can have better Wi-Fi coverage.

Support AP/Bridge/Client mode, Mesh w/802.11k, v roaming

IWMR-3003 supports AP/Bridge/Client mode for different applications. Client mode supports PMK** Caching and pre-

It also supports 802.11k, v roaming to allow encryption keys to be stored on all APs in a network.

Built-in Wireless Mesh network (WMN)

IWMR-3003 supports Mesh network composed of different nodes. The set of SSIDs allow the wireless client to roam freely without the need for complicated account management. With Mesh protocol, it can provide a reliable, scalable, stable and seamless network topology.

Wireless WMM QoS

IWMR-3003 supports 802.11e standard which defines a set of Quality of Service for wireless LAN applications as well as WMM (Wi-Fi multimedia)

Advanced security & 16 SSIDs

The security support standards including 64/128bits WEP, WPA/WPA2 PSK (TKIP, AES), 802.1x ensures the best security and active defense against security treads. Lantech IWMR-3003 support up to 16 SSIDs, each SSID has its independent security and encryption.

Load Balancing with 8 mechanism for multi-WANs (premium license pack)

IWMR-3003 supports Load Balancing for LTE/WAN (client mode) connections. There are eight schemes for Load Balancing function:

Pack	Algorithm	Description
Basic Package	Fixed	Manually route by traffic type through fixed WAN link.
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not failback until link loss.
	Priority	Routes connections through preferred WAN link as primary while others follow by. Ex. Wi-Fi

		client>LTE>others		
	Weighted Round- Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights.		
	Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.		
Full Package** (incl. basic package)	Sticky Session*	Binding all connections in an application session to particular WAN link to ensure all connections in the session are routed to the same WAN link, that is suitable for security services like online payment etc.		
	Smallest Load*	Routes connections through the WAN link with highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic		
	Fastest*	Routes connections through the WAN link with lowest latency time.		

4 port serial connection, Modbus gateway

It builds in 4 port serial connection for RS232, RS422, RS485 in which RS422/RS485 has 2.5KV isolation protection. (RJ45 model only)

The built-in Modbus gateway can convert Modbus RTU/ASCII to Modbus TCP for device control.

VPN and firewall

Besides traditional VPN peer to peer tunneling, IWMR-3003 support latest Multi-Site VPN function that is an efficient way for Mesh tunneling. The registration is under cloud service and encrypted by SSH makes the connection easy and safe.

It supports Multi-Site VPN, OpenVPN, L2TP over IPsec, IPsec, PPTP**, L2 over GRE, IPGRE, and NAT for various VPN applications.

The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number

DIDO** for alarm & email notice; Event log; Remote Web control

2 sets of optional DIDO function can support additional high/low physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the router was moved or stolen. In case of events, the IWMR-3003 will immediately send email and trap.

When the router is at remote area with limited access, Web control can help to get router status or remotely reboot.

24V/HV input voltage selection: dual 9V-56VDC (24V model) or dual 24V-30VDC (24V-IGN model) or single 90~305VAC/120~430VDC (HV model)

The IWMR-3003 is able to work from 9VDC to 56VDC (24V model) or dual 24V-30VDC (24V-IGN model). Or with single high power supply at 90~305VAC / 120~430VDC (HV model).



(RJ45 model only)

Built-in 3 port Gigabit Ethernet

3 port Gigabit Ethernet can be supported as 2LAN+1WAN or 3LAN or 3 WAN models.

Graphic Wi-Fi & LTE signal strength

The graphic Wi-Fi & LTE signal strength shows connection status at a glance.

USB port for back up, restore configuration and upgrade firmware; Dual image firmware*

The built-in USB port can upload/download the configuration through USB dongle for router replacement.

It supports dual-image firmware* to choose which one to start.

Ianition Sensina*

Ignition sense allows you to delay power off the router with a designated time delay.

Editable login page of captive portal

The IWMR-3003 supports editable captive portal function that allows administrator to force end-users redirect to authentication page.

Ruggedized industrial design and FCC*, CE* & E-marking** certificate

The IWMR-3003 is designed to meet with outdoor network environment with IP30 (IP43 for M12 model) housing. It passed serious tests under extensive Industrial EMI and environmental vibration and shocks standards. With CE & FCC radio certification for Wi-Fi and LTE and E-marking** certificate, the IWMR-3003 is best for outdoor community, vehicle, process control automation etc. application.

For more usage flexibilities, IWMR-3003 supports wide operating temperature from -40°C to 65°C

EN50155, EN61373 verification*;

The IWMR-3003 series is also applicable for railway onboard/track side, vehicle and mining applications for more usage flexibilities.

FEATURES & BENEFITS

- High Speed Air Connectivity: WLAN interface support up to 2.6Gbps link speed(2AC) or 1.3Gbps(1AC)
- Built-in 3 Gigabit ports and 2LAN+1WAN or 3 LAN or 3
 WAN (incl.1 PD)
- Support AP/Bridge/Client/MESH mode
- Support roaming with 802.11k & v
- Support 802.11s Wireless Mesh Network
- EMMC-FLASH storage** 8/16/32G
- Dual band 2.4G and 5GHz with 802.11ac/a/b/g/n
- Support 2.4Ghz operating within the following frequency bands:
 - 2.412~2.472 GHz
- Support 5Ghz operating within the following frequency bands:
 - 5.180~5.825 GHz
- MIMO smart antenna technology with 3T3R with 6 SMA type connectors and optional antennas
 - Optional Air-teaming protection(2AC)
 - High-sustainability: if one link member is down or severely interfered, the other link will keep the network traffic alive.
 - Aggregated bandwidth: The bandwidth of two link members can be aggregated to provide maximum throughput—
- IEEE 802.11h DFS and automatic TPC
- Output power: <24dBM</p>
- Transmit power adjustment
- VAP (virtual access point) support up to 16 SSIDs
- Operation modes: AP / Bridge / Client
- Traffic control for each SSID**
- Band preference for same SSID services on dual band**
- Rate selection to disable low data rate access**
- Highly Security Capability: WEP64/128bits/ WPA/ WPA-

PSK (TKIP, AES)/ WPA2/ WPA2-PSK (TKIP, AES)

- HTTP/HTTPS/Telnet/SSH & Administration access
- Support IPv6 & IPv4 protocol
- Radius Authentication, EAP-TLS, EAP-TTLS, PEAP;
 SSID broadcast disable supported
- Multiple channel bandwidths of 20MHz and 40MHz for 2 4G
- Multiple channel bandwidths of 20MHz, 40MHz and 80MHz for 5G only.
- Wi-Fi Multimedia (WMM) and 802.11e traffic prioritization
- Support Multi-Site VPN for Mesh tunneling as well as Open VPN, L2TP over IPsec, IPsec, PPTP**, L2 over GRE, IPGRE and NAT for secured network connection
- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number
- Support SNMP*v1/v2c/v3
- NAT/DMZ/Port Forwarding
- Dual concurrent LTE 4G/3G design (2L model) for auto-swap/failover/failback between multiple ISPs for continuous service (four SIM card slots)
- One LTE 4G/3G w/ 2 SIM card design (1L model) for mobile redundancy
- GPS & GLONASS connection
- Load Balancing supports 8 mechanism between multiple WANs

Pack	Algorithm	Description
Basic Package	Fixed	Manually route by traffic type through fixed WAN link.
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail



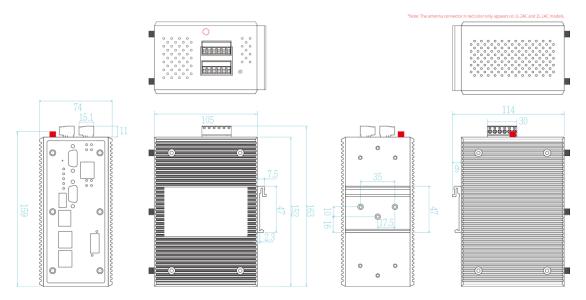
		occurs. Once failover will not failback until link loss.
	Priority	Routes connections through preferred WAN link as primary while others follow by. Ex. Wi-Fi client>LTE>others
	Weighted Round- Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights.
	Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.
Full Package** (incl. basic package)	Sticky Session*	Binding all connections in an application session to particular WAN link to ensure all connections in the session are routed to the same WAN link, that is suitable for security services like online payment etc.
	Smallest Load*	Routes connections through the WAN link with highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic
	Fastest*	Routes connections through the WAN link with lowest latency time.

Built-in 4 x serial ports (RS232/RS422/RS485) (RJ45 model only)

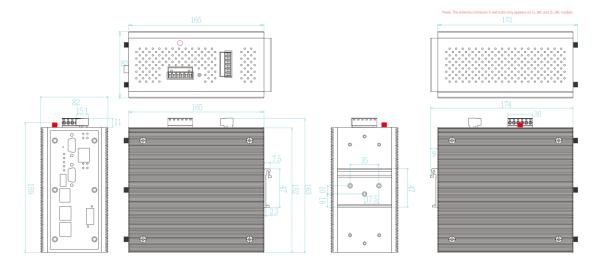
- Serial port with 2.5KV isolation on RS422/RS485 (RJ45 model only)
- Supports optional 2DI / 2DO (Digital Input / Output)
- Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP
- Event alerting by Syslog, SNMP Trap, Email, Relay;
 Permanent local log rotation / Maxi 1K records
- Remote Web control to get status or re-boot by Web
- Built-in RTC to keep track of time always
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Reset button for factory default mode
- Graphic LTE & WIFI signal strength
- Firmware upgradeable through TFTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download configuration by USB dongle
- Support editable captive portal login page
- IP30/IP43(M12 model) housing for industrial environment
- DIN-Rail and Wall-mount** installation
- Operation temperature -40°C to 65°C
- Wide range input voltage from 9V-56V; dual input 24V-30VDC (24V-IGN model)
- Single input power 90~305VAC/120~430VDC (HV model)
- ITxPT compliant w/ ignition function*

DIMENSIONS (unit=mm)

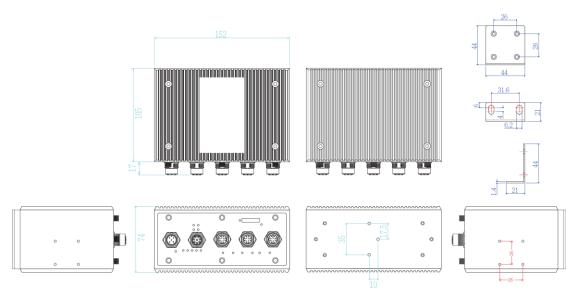
24V model



HV model



M12 model



SPECIFICATION

WLAN Interface		s)	18dBm @ 6~54Mbps
Radio Frequency Type	DSSS, OFDM		20/20dBm @ MCS0~MCS7 (HT20/40) Receiver Sensitivity Rx +/- 2dB
Wireless Standard	IEEE 802.11ac/n/a 5GHz IEEE 802.11b/g/n 2.4GHz		≦-95dBm @ 1~11Mbps ≦-92dBm @ 6~18Mbps
Wireless bandwidth	5GHz: Up to 1300Mbps 2.4GHz: Up to 450Mbps		≤-88dBm @ 24Mbps ≤-85dBm @ 36Mbps
Modulation	802.11b: DSSS 802.11a/g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)	IEEE 802.11a/n/ac(5Gbp s)	≤ -81dBm @ 48Mbps ≤ -80dBm @ 54Mbps ≤ -94dBm @ MCS0 (HT20/40) ≤ -76dBm @ MCS7 (HT20/40) Output Power Tx +/- 2dB (per chain) 20dBm @ 6-24Mbps 16dBm @ 36~54Mbps
Operating Frequency	IEEE 802.11 a/b/g/n ISM Band, 2.412GHz~2.472GHz, 5150MHz~5850MHz		19/18dBm @ MCS0 (HT20/40) 16/16dBm @ MCS7 (HT20/40)
Transmission Rate	IEEE802.11ac: up to 1300Mbps IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps IEEE802.11n: up to 450Mbps		19/18/18dBm @ MCS0 (VHT20/40/80) 13/13/13dBm @ MCS8 (VHT20/40/80) 13/13dBm @ MCS9 (VHT40/80) Receiver Sensitivity Rx +/- 2dB
IEEE 802.11b/g/n(2.4Gbp	Output Power Tx +/- 2dB (per chain) 18dBm @ 1~11Mbps		≦-92dBm @ 6~18Mbps ≦-86dBm @ 24Mbps ≦-84dBm @ 36Mbps



Section & Selbsteps - design in Selbsteps - design in Selbsteps - design in Selbsteps - design in MCSB (VFTD0400) - design in MCSB (VFTD04000) - design in MCSB (VFTD040000) - design in MCSB (VFTD0400000) - design in MCSB (VFTD04000000) - design in MCSB (VFTD0400000000000000000000000000000000000			_	
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Data Rates – LTE			orum uap	
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FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 28 Mbps TDD: 28 Mbps Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 224 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 224 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 224 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 264 Mbps Uplink (Cat 13: 150 Mbps Cat 9: 450 Mbps Uplink (Cat 13: 150 Mbps Cat 9: 450 Mbps Uplink (Cat 13: 150 Mbps Cat 13: 150	Data Rates – LTE			Graphic LTE & Wi-Fi signal strength
TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 28 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 224 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 225 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 28 Mbps TDD: 28 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 28 Mbps				To value the variety of variety by Wald II
Uplink (Cat 6): FDD: 26 Mbps		The state of the s		lo reboot or get status of router by Webor
FIDD: 50 Mbps TDD: 26 Mbps Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 22 Mbps Uplink (Cat 6): FDD: 500 Mbps TDD: 22 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 22 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 22 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 22 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Uplink: Cat 12: 600 Mbps Uplink: Cat 12: 600 Mbps Uplink: Cat 13: 150 Mbps Up		·		Editable captive portal login page
Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 500 Mbps TDD: 224 Mbps Uplink (Cat 6): FDD: 500 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Cat 14: 15: 15: 15: 15: 15: 15: 15: 15: 15: 15		·	Maintenance	
Serial Band Rate USB port to upload/download configuration by USB dongle				
Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps TDD: 27 Mbps TDD: 28 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps TDD: 21: 150 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps TDD: 26 Mbps Uplink: Cat 13: 150 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps TDD: 26 Mbps TDD:		IDD: 26 Mbps	Configuration	Supports text configuration file for quick system
FDD: 300 Mbps TDD: 222 Mbps Uplink (Cart 6): FDD: 50 Mbps TDD: 22 Mbps TDD: 228 Mbps TDD: 28 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Uplink: Cat 13: 150 Mbps Software Pro/4 Present Specurity Special Ports & System Connectors 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USBx 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) Silk card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) Serial Band Rate 1000Kpps high data rate, 250kbps normal for RS232; Serial Data Bits Special Parity Serial Data Bits Special Parity Serial Data Bits Special Parity Serial Band Rate 1000Kpps high data rate, 250kbps normal for RS232; Serial Parity Serial Data Bits Special Parity Special		·		installation
Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Uplink: Cat 13: 150 Mbps Software Previal Present Operating Mode AP/Bridge/Client/MESH modes Sognetity Supports IEEE802.1x Authentication/RADIUS Access Security APPM-Y/A2/V3 access for authentication via MD5/SHA(V3) and Encryption via DES/AES(V3) Protocol PPDe Client, DHCP server/Client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDOS; IP address filter / TCP/UDP port name), VRRP**, DDNS* Management SNMP*V, A2/V3 Web Falnet/CLI Dead Balancing Basic expensions through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Priority Rouse connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Connectors 10/100/1000T3 xp ports RJ 45 with Auto MDI/MDI-X function (one port PD) USR x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Sfild connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x S-pole terminal block (RJ45 model only) SM connector: 6 Wi-Fi male, LTE female) DIDO**: 2 Digital model only) SM connector: 6 Wi-Fi m		Europe & North America (EUNA model)		installation USB port to upload/download configuration by USB
FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Serial Band Rate Operating Mode AP/Bridge/Client/MESH modes Login Security Access Security Access Security Protocol Proto		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps	backup & restore	installation USB port to upload/download configuration by USB dongle
World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Software IPv6/4 Present Operating Mode Login Security HTTP/HTTPS/Teinet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MDS/SHA(v3) and Encryption via DES/AES(v3) Protocol PPoE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDS,*)* Paddress filter / TCP/UDP port name), VRRP**, DDNS* Management SNMP*v1/v2v, v3 Web/Teinet/CLI Logal Balancing Basic Package Fixed Manually route by traffic type through fixed WAN link. Failover Routes connections through preferred WAN link while others stand-by. Sequentially activate other link if preferred link failure occurs. Wildested Round Wilde (WW model) SMMP v1/v2 (AD (R)		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps	backup & restore Physical Po	installation USB port to upload/download configuration by USB dongle rts & System
World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Uplink: Cat 13: 150 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Uplink: Cat 13		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6):	backup & restore Physical Po	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X
Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Serial Band Rate Serial Band Rate 1000Kbps high data rate, 250kbps normal for RS232; 20Mbps high data rate, 250kbps normal for RS232; 20M		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps	backup & restore Physical Po	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD)
Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Software IPv6/4 Present Operating Mode AP/Bridge/Client/MESH modes Login Security Access Security Protocol PPPoE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMC; NAT, SNTP, Firewall (Firewall (DDoS; IP address filter / Mac address filter / TCP/UDP port name), VRRP**, DDNS* Management Load Balancing Basic Package Fixed Manually route by traffic type through fixed WAN link while others stand-by. Sequentially activate other links if overflow occurs. Wisintered Royed Cat 12: 600 Mbps Cat 9: 450 Mbps UDO**: 1 x5-pole terminal block (RJ45 model only) 1000Kbps high data rate, 250kbps normal for RS232; 20Mbps high data rate, 250kbps normal for RS242/RS485 (RJ45 model only) 1000Kbps high data rate, 250kbps normal for RS232; 5, 6, 7, 8 Serial Data Bits 5, 6, 7, 8 Serial Parity odd, even, none, mark, space 1, 1, 15, 2 Serial Stop Bits 1, 1, 15, 2 RS-232 Txb, Rxb, RTS, CTS, DTR, DSR, DCD, GND Txb, RS-422 Txb, Tx-, Rx+, Rx-, GND Data+, Data-, CND Basic Package Fixed Manually route by traffic type through fixed WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Routes Connections thr		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps	backup & restore Physical Po	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1
Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Uplink: Cat 13: 150 Mbps Software IPv6/4 Present Operating Mode Login Security Access Security Protocol Manually route by traffic type through fixed WAN link. Fallover Manually route by traffic type through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Cat 13: 150 Mbps Serial Band Rate 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 1 x 5-pole terminal block (RJ45 model only) 100DC*: 2 bond in the 250RbCps nomal for RS422/RS485 (RJ45 model only) 5 pole werk 2/2/RS485 (RJ45 model only) 5 pole werk, none, mark, space 11, 1, 5, 2 11, 1, 5, 2 12, 1, 1, 5, 2 12, 1, 1, 5, 2 12, 1, 1, 1, 5, 2 12, 1, 1, 1, 5, 2 12, 1, 1, 1, 5, 2 12, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model)	backup & restore Physical Po	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only)
Uplink: Cat 13: 150 Mbps		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink:	backup & restore Physical Po	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L)
Software Pv6/4		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps	backup & restore Physical Po	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female)
Present		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps	Physical Po Connectors	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only)
Operating Mode AP/Bridge/Client/MESH modes Login Security Access Security Acce		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink:	Physical Po Connectors	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232;
Departing Mode AP/Bridge/Client/MESH modes Login Security Supports IEEE802.1x Authentication/RADIUS Access Security HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) RS-422 Tx+, Tx-, Rx+, Rx-, GND Tx+, Tx-, Rx+, Rx-, GND Data+, Data-, Data	Software	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink:	Physical Po Connectors Serial Band Rate	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate, 250kbps normal for RS232; 20Mbps high data rate, 250kbps normal for RS422/RS485 (RJ45 model only)
Access Security Access Security Access Security Access Security HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) Protocol PPoE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDoS; IP address filter / Mac address filter* / TCP/UDP port name), VRRP**, DDNS* Management SNMP*v1,v2c,v3/ Web/Telnet/CLI Load Balancing Basic Package Fixed Manually route by traffic type through fixed WAN link. Faillover Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Priority RS-232 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND BA16/32 GB RS-422/RS485 2.5KV isolation; 8KV contact & 15KV air RS-485 (2-wire) Data+, Data-, GND RS-422/RS485 2.5KV isolation; 8KV contact & 15KV air RS-232 TxH, Tx-, Rx+, Rx-, GND BA16/32 GB RS-422/RS485 2.5KV isolation; 8KV contact & 15KV air RS-485 (2-wire) Data+, Data-, GND RS-485 (2-wire) RS-485 (2-wire) RS-485 (2-wire) Data+, Data-, GND RS-485 (2-wire)		Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps	Physical Po Connectors Serial Band Rate Serial Data Bits	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8
Access Security HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) Protocol RS-422 Tx+, Tx-, Rx+, Rx-, GND Basic C2-wire) Brode 22/RS485 2.5KV isolation; 8KV contact & 15KV air RS-422 Tx+, Tx-, Rx+, Rx-, GND Brode 22/RS485 2.5KV isolation; 8KV contact & 15KV air RS-422 Tx+, Tx-, Rx+, Rx-, GND Brode 22/RS485 2.5KV isolation; 8KV contact & 15KV air RS-422 RS-422/RS485 2.5KV isolation; 8KV contact & 15KV air RS-422 Tx+, Tx-, Rx+, Rx-, GND RA462/PRA95 RS-422/RS485 2.5KV isolation; 9KV contact & 15KV air RS-422 Tx+, Tx-, Rx+, Rx-, GND RA4	IPv6/4	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space
SNMP*V1/2/3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) Protocol RS-485 (2-wire) Brotocol RS422/RS485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air	IPv6/4 Operating Mode	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2
Protocol PProE Client, DHCP server/Client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDoS; IP address filter / Mac address filter* / TCP/UDP port name), VRRP**, DDNS* Management SNMP*r1, v2c, v3/ Web/Telnet/CLI Load Balancing 8 schemes for multiple WAN Basic Package Fixed Manually route by traffic type through fixed WAN link. While others stand-by. Sequentially activate another link if preferred link failure occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Fixed Surged Sur	IPv6/4 Operating Mode Login Security	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration;	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND
Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDoS; IP address filter / Mac address filter* / TCP/UDP port name), VRRP**, DDNS* Management SNMP*v1,v2c,v3/ Web/TeInet/CLI Load Balancing 8 schemes for multiple WAN Load Balancing 8 schemes for multiple WAN Basic Package Fixed Manually route by traffic type through fixed WAN link. Failover Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Forting the forting of the following preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Forting the forting of the forting	IPv6/4 Operating Mode Login Security	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-422	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND
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Management SNMP*v1,v2c,v3/ Web/Telnet/CLI Load Balancing 8 schemes for multiple WAN Basic Package Fixed Manually route by traffic type through fixed WAN link. Failover Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Weighted Routed Routed Fixely Contact and 15kV air ESD DIDO** 3KV isolation LED Indicators Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Serial1/Serial2 (Green) (RJ45 model only), Ready (Green) Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off) SIM Green for Link/Act GPS Green for Link/Act WLAN LEDS WLAN 1, WLAN2 Link /ACT: Green DI/DO** 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10-30V	IPv6/4 Operating Mode Login Security Access Security	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPPoE Client, DHCP server/client, Adjustable MTU,	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-485 (2-wire) EMMC Storage**	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232 ; 20Mbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND TX+,Tx-, RX+, RX-,GND Data+, Data-,GND 8/16/32 GB
Load Balancing 8 schemes for multiple WAN Basic Package Fixed Manually route by traffic type through fixed WAN link. Failover Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if overflow occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Priority Figure 1.5KVA isolation LED Indicators Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Serial1/Serial2 (Green) (Rud45 model only), Ready (Green) Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off) SIM Green for Link/Act WLAN LEDS WLAN 1, WLAN2 Link /ACT: Green DVDO** 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10-30V	IPv6/4 Operating Mode Login Security Access Security	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPPOE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-485 (2-wire) EMMC Storage**	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-,Rx+, Rx-,GND B/16/32 GB RS422/RS485 2.5KV isolation; 8KV contact & 15KV air
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link if preferred link failure occurs. Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Weighted Round SIM Green for Link/Act GPS Green for Link/Act WLAN LEDs WLAN 1, WLAN2 Link /ACT: Green DVDO** 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10-30V	IPv6/4 Operating Mode Login Security Access Security Protocol Management Load Balancing Basic Package Fixed	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*V1/V2/V3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPOE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDOS; IP address filter / Mac address filter* /TCP/UDP port name}, VRRP**, DDNS* SNMP*v1, v2c, v3/ Web/Telnet/CLI 8 schemes for multiple WAN Manually route by traffic type through fixed WAN link.	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-485 (2-wire) EMMC Storage** Isolation protection LED Indicate Power & System indicator	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND 8/16/32 GB RS422/RS485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air ESD DIDO** 3KV isolation Input power 1.5KVA isolation Ors Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Serial1/Serial2 (Green) (RJ45 model only), Ready (Green)
Priority Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Weighted Round Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. By DVDO** GPS Green for Link/Act WLAN 1, WLAN2 Link /ACT: Green DVDO** 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10-30V	IPv6/4 Operating Mode Login Security Access Security Protocol Management Load Balancing Basic Package Fixed	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*V1/V2/V3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPOE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDoS; IP address filter / Mac address filter* /TCP/UDP port name}, VRRP**, DDNS* SNMP*v1, v2c, v3/ Web/Telnet/CLI 8 schemes for multiple WAN Manually route by traffic type through fixed WAN link. Routes connections through preferred WAN link	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-485 (2-wire) EMMC Storage** Isolation protection LED Indicate Power & System indicator 10/100/1000Base-	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND 8/16/32 GB RS422/RS485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air ESD DIDO** 3KV isolation Input power 1.5KVA isolation Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Seped (1000T: Yellow;
while others stand-by. Sequentially activate other links if overflow occurs. WLAN LEDs WLAN 1, WLAN2 Link /ACT: Green DVDO** 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10~30V	IPv6/4 Operating Mode Login Security Access Security Protocol Management Load Balancing Basic Package Fixed	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*V1/V2/V3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPOE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDoS; IP address filter / Mac address filter* /TCP/UDP port name}, VRRP**, DDNS* SNMP*v1, v2c, v3/ Web/Telnet/CLI 8 schemes for multiple WAN Manually route by traffic type through fixed WAN link. Routes connections through preferred WAN link while others stand-by. Sequentially activate another	Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-422 RS-485 (2-wire) EMMC Storage** Isolation protection LED Indicate Power & System indicator 10/100/1000Base-T(X) port indicator	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND 8/16/32 GB RS422/RS485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air ESD DIDO** 3KV isolation Input power 1.5KVA isolation Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Serial1/Serial2 (Green) Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off)
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Weighted Pound Evenly distribute the traffic ever all working WAN Level 0: -30-2V / Level 1: 10-30V	IPv6/4 Operating Mode Login Security Access Security Protocol Management Load Balancing Basic Package Fixed Failover	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*V1/V2/V3 access for authentication via MD5/SHA(V3) and Encryption via DES/AES(V3) PPOE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDOS; IP address filter / Mac address filter* /TCP/UDP port name), VRRP**, DDNS* SNMP*V1, V2c, V3/ Web/Telnet/CLI 8 schemes for multiple WAN Manually route by traffic type through fixed WAN link. Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link	Backup & restore Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-485 (2-wire) EMMC Storage** Isolation protection LED Indicate Power & System indicator 10/100/1000Base-T(X) port indicator SIM GPS	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND 8/16/32 GB RS422/RS485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air ESD DIDO** 3KV isolation Input power 1.5KVA isolation Ors Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Serial1/Serial2 (Green) (RJ45 model only), Ready (Green) Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off) Green for Link/Act
Max. input current:8mA	IPv6/4 Operating Mode Login Security Access Security Protocol Management Load Balancing Basic Package Fixed Failover	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*V1/V2/V3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPOE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDOS; IP address filter / Mac address filter* /TCP/UDP port name), VRRP**, DDNS* SNMP*v1, v2c, v3/ Web/Telnet/CLI 8 schemes for multiple WAN Manually route by traffic type through fixed WAN link. Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link while others stand-by. Sequentially activate other	Backup & restore Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-485 (2-wire) EMMC Storage** Isolation protection LED Indicator 10/100/1000Base-T(X) port indicator SIM GPS WLAN LEDS	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps norma
	IPv6/4 Operating Mode Login Security Access Security Protocol Management Load Balancing Basic Package Fixed Failover	Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps Present AP/Bridge/Client/MESH modes Supports IEEE802.1x Authentication/RADIUS HTTP/HTTPS/Telnet/SSH & Administration; SNMP*V1/V2/V3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPOE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall (Firewall (DDoS; IP address filter / Mac address filter* /TCP/UDP port name}, VRRP**, DDNS* SNMP*v1, v2c, v3/ Web/Telnet/CLI 8 schemes for multiple WAN Manually route by traffic type through fixed WAN link. Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs.	Backup & restore Physical Po Connectors Serial Band Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-485 (2-wire) EMMC Storage** Isolation protection LED Indicator 10/100/1000Base-T(X) port indicator SIM GPS WLAN LEDS	installation USB port to upload/download configuration by USB dongle rts & System 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 RS-232 connector: 1 x RJ 45 (RJ45 model only) Serial connector: 2 DB9 (RJ45 model only) SIM card slots: 4(2L) or 2(1L) SMA connector: 6 (Wi-Fi male, LTE female) DIDO**: 1 x 5-pole terminal block (RJ45 model only) 1000Kbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232; 20Mbps high data rate,250kbps normal for RS232/RS485 (RJ45 model only) 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND 8/16/32 GB RS422/RS485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air ESD DIDO** 3KV isolation Input power 1.5KVA isolation DICS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Speed (1000T: Yellow; 10/100TX: off) Green for Link/Act Green for Link/Act WLAN 1, WLAN2 Link /ACT: Green 2 Digital Input (DI): Level 0: -30-2V / Level 1: 10-30V



	2 Digital Output (DO): Open collector to 40 VDC,	Weight	TBD
	200mA	Environmental	
Fault	Red: Ethernet link down or power down	Storage	-40°C ~ 85°C (-40°F ~ 185°F)
Fault contact	t	Temperature	
Relay	Relay output to carry capacity of 1A at 24VDC	Operating	-40°C ~65°C (-40°F ~ 149°F)
Power		Temperature Operating Humidity	5% to 95% Non-condensing
Input power	Dual DC input, 9V~56VDC (24V model) Dual DC input, 24~30VDC (24V-IGN model)	Regulatory a	approvals
	Single HV input, 90~305VAC/120~430VDC (HV	EMC	FCC Part 15 Class A, EN55032, EN55024
	model) (RJ45 model)	EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-
Power consumption (Typ.)	20 Watts		4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Physical Cha	aracteristic	Vehicle certificate	E13**
Enclosure	IP30/IP43(M12 model) Metal case		ITxPT compliant*
Dimension	74 (W) x 114 (D) x 152 (H) mm (24V, 1L-1AC model)	Railway	EN50155* EN61373*
	74 (W) x 114 (D) x 159 (H) mm (24V, 1L-2AC / 2L-1AC	MTBF	NA
	model)	Warranty	5 years
	74(W) x 122(D) X 152 (H)mm (M12 model)		*Future Release
	82 (W) x 172 (D) x 152 (H) mm (HV, 1L-1AC model)		**Optional
	82 (W) x 172 (D) x 159 (H) mm (HV, 1L-2AC / 2L-		•
	1AC model) (HV only for RJ45 model)		

RF Performance Table

	Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
	1Mbps	20dBm	25dBm	±2dB	-95dBm	±2dB
2.4GHz	2Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
802.11b	5.5Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
	11Mbps	20dBm	25dBm	±2dB	-90dBm	±2dB
	6Mbps	21dBm	26dBm	±2dB	-94dBm	±2dB
	9Mbps	21dBm	26dBm	±2dB	-93dBm	±2dB
	12Mbps	21dBm	26dBm	±2dB	-93dBm	±2dB
2.4GHz	18Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
802.11g	24Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
	36Mbps	20dBm	25dBm	±2dB	-85dBm	±2dB
	48Mbps	19dBm	24dBm	±2dB	-82dBm	±2dB
	54Mbps	18dBm	23dBm	±2dB	-80dBm	±2dB
	MCS 0	21dBm	26dBm	±2dB	-94dBm	±2dB
	MCS 1	21dBm	26dBm	±2dB	-92dBm	±2dB
	MCS 2	21dBm	26dBm	±2dB	-89dBm	±2dB
2.4GHz 802.11n	MCS 3	20dBm	25dBm	±2dB	-84dBm	±2dB
HT20	MCS 4	20dBm	25dBm	±2dB	-83dBm	±2dB
	MCS 5	20dBm	25dBm	±2dB	-80dBm	±2dB
	MCS 6	18dBm	23dBm	±2dB	-79dBm	±2dB
	MCS 7	16dBm	21dBm	±2dB	-77dBm	±2dB
	MCS 0	20dBm	25dBm	±2dB	-93dBm	±2dB
	MCS 1	20dBm	25dBm	±2dB	-91dBm	±2dB
	MCS 2	20dBm	25dBm	±2dB	-89dBm	±2dB
2.4GHz	MCS 3	19dBm	24dBm	±2dB	-84dBm	±2dB
802.11n HT40	MCS 4	19dBm	24dBm	±2dB	-82dBm	±2dB
	MCS 5	19dBm	24dBm	±2dB	-80dBm	±2dB
	MCS 6	18dBm	23dBm	±2dB	-79dBm	±2dB
	MCS 7	16dBm	21dBm	±2dB	-75dBm	±2dB



		chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
	6Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	9Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	12Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
5GHz	18Mbps	20dBm	25dBm	±2dB	-91dBm	±2dB
802.11a	24Mbps	20dBm	25dBm	±2dB	-90dBm	±2dB
	36Mbps	18dBm	23dBm	±2dB	-86dBm	±2dB
	48Mbps	16dBm	21dBm	±2dB	-83dBm	±2dB
	54Mbps	15dBm	20dBm	±2dB	-80dBm	±2dB
	MCS 0	19dBm	24dBm	±2dB	-93dBm	±2dB
	MCS 1	19dBm	24dBm	±2dB	-90dBm	±2dB
	MCS 2	19dBm	24dBm	±2dB	-87dBm	±2dB
ECH-	MCS 3	18dBm	23dBm	±2dB	-83dBm	±2dB
5GHz 802.11n/ac	MCS 4	18dBm	23dBm	±2dB	-80dBm	±2dB
VHT20	MCS 5	17dBm	22dBm	±2dB	-77dBm	±2dB
	MCS 6	16dBm	21dBm	±2dB	-74dBm	±2dB
	MCS 7	14dBm	19dBm	±2dB	-73dBm	±2dB
	MCS 8	13dBm	18dBm	±2dB	-71dBm	±2dB
	MCS 0	18dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 1	18dBm	23dBm	±2dB	-88dBm	±2dB
	MCS 2	18dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 3	17dBm	22dBm	±2dB	-82dBm	±2dB
5GHz 802.11n/ac	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
VHT40	MCS 5	16dBm	21dBm	±2dB	-75dBm	±2dB
	MCS 6	15dBm	20dBm	±2dB	-73dBm	±2dB
	MCS 7	14dBm	19dBm	±2dB	-73dBm	±2dB
	MCS 8	13dBm	18dBm	±2dB	-70dBm	±2dB
	MCS 9	13dBm	18dBm	±2dB	-68dBm	±2dB
	MCS 0	18dBm	23dBm	±2dB	-89dBm	±2dB
	MCS 1	18dBm	23dBm	±2dB	-87dBm	±2dB
	MCS 2	18dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 3	17dBm	22dBm	±2dB	-83dBm	±2dB
5GHz 802.11ac	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
VHT80	MCS 5	16dBm	21dBm	±2dB	-78dBm	±2dB
	MCS 6	15dBm	20dBm	±2dB	-75dBm	±2dB
	MCS 7	14dBm	19dBm	±2dB	-72dBm	±2dB
	MCS 8	13dBm	18dBm	±2dB	-70dBm	±2dB
	MCS 9	13dBm	18dBm	±2dB	-68dBm	±2dB

ORDERING INFORMATION

For -40~65C operational temperature model

M12 models are available with -M12 model names (-2S/-4S/-2SA/-2SB/-2S2SA/-2S2SB for RJ45 models only)

- 2 RS422 models are available with -2SA; 2 RS485 models are available with -2SB
- 2 RS232+ 2 RS422 models are available with -2S2SA; 2 RS232+ 2 RS485 models are available with -2S2SB For 24V model are all available with -IGN model name (w/ ignition)
- IWMR-3003-2L-1AC-2S-24V-EUNA......P/N: 8699-001

Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C

- IWMR-3003-2L-1AC-2S-24V-WW......P/N: 8699-002
 - Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- IWMR-3003-2L-1AC-4S-24V-EUNA......P/N: 8699-004
 - Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C
- IWMR-3003-2L-1AC-4S-24V-WW......P/N: 8699-005
 - Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3



Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/q/n Load Balancing Multifunction Router w/ 4 RS232 serial p	orts ar
port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C	vui lo di
IWMR-3003-1L-1AC-2S-24V-EUNAP/N: 8699-007	
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial po	orts an
Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C	
IWMR-3003-1L-1AC-2S-24V-WWP/N: 8699-008	
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial po	orts an
Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C	
IWMR-3003-1L-1AC-2S-24V-APACP/N: 8699-009	
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial policy and se	orts an
Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C	
IWMR-3003-1L-1AC-4S-24V-EUNA	
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial po	orts and
Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C IWMR-3003-1L-1AC-4S-24V-WW	
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial po	rte an
Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C	nts and
IWMR-3003-1L-1AC-4S-24V-APACP/N: 8699-012	
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial po	rts and
Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C	
IWMR-3003-1L-2AC-2S-24V-EUNAP/N: 8699-013	
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial po	rts and
Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC -40~65C	
IWMR-3003-1L-2AC-2S-24V-WWP/N: 8699-014	
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial po	rts and
Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C	
IWMR-3003-1L-2AC-2S-24V-APACP/N: 8699-015	
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial po	rts and
Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C IWMR-3003-1L-2AC-4S-24V-EUNA	
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial po	rte and
Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC -40~65C	nto and
IWMR-3003-1L-2AC-4S-24V-WWP/N: 8699-017	
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial po	rts and
Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C	
IWMR-3003-1L-2AC-4S-24V-APACP/N: 8699-018	
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial po	rts and
Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C	
IWMR-3003-2L-1AC-2S-HV-EUNAP/N: 8699-019	
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial p	oorts a
port Gigabit Ethernet (incl. 1PD); EU and US band; single high power 90~305VAC / 120~430VDC; -40~65C	
IWMR-3003-2L-1AC-2S-HV-WW	
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial proff Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C	onts a
IWMR-3003-2L-1AC-2S-HV-APAC	
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial p	orts a
port Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C	00110 a
IWMR-3003-2L-1AC-4S-HV-EUNAP/N: 8699-022	
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial p	orts ar
port Gigabit Ethernet (incl. 1PD); EU and US band; single high power 90~305VAC / 120~430VDC; -40~65C	
IWMR-3003-2L-1AC-4S-HV-WWP/N: 8699-023	
IWMR-3003-2L-1AC-4S-HV-WW	orts an
	orts an
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial policy Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC	
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial pd Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC	
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial policy Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC	
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial policy Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC	orts ai
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial policy Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC	orts ai
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial port Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC P/N: 8699-024 Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial port Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-EUNA P/N: 8699-025 Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial post Gigabit Ethernet (incl. 1PD); EU and US band; single high power 90~305VAC / 120~430VDC; -40~65C	orts ai
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial port Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC P/N: 8699-024 Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial port Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-EUNA P/N: 8699-025 Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial post Gigabit Ethernet (incl. 1PD); EU and US band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-WW P/N: 8699-026	oorts an
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial port Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC P/N: 8699-024 Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial poort Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-EUNA P/N: 8699-025 Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial poorting in the	oorts an
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial port Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC P/N: 8699-024 Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial poort Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-EUNA P/N: 8699-025 Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial poorting in the series of th	oorts an
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial portion of Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC P/N: 8699-024 Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial poort Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-EUNA P/N: 8699-025 Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial poorting of Gigabit Ethernet (incl. 1PD); EU and US band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-WW P/N: 8699-026 Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial poorting of Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-APAC P/N: 8699-027	oorts an
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/4 RS232 serial port Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-2L-1AC-4S-HV-APAC P/N: 8699-024 Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial poort Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C IWMR-3003-1L-1AC-2S-HV-EUNA P/N: 8699-025 Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial poorting of the series o	oorts an

IWMR-3003-1L-1AC-4S-HV-EUNA......P/N: 8699-028



Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; single high power 90~305VAC / 120~430VDC; -40~65C

IWMR-3003-1L-1AC-4S-HV-WW......P/N: 8699-029

Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C

IWMR-3003-1L-1AC-4S-HV-APAC......P/N: 8699-030

Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C

IWMR-3003-1L-2AC-2S-HV-EUNA......P/N: 8699-031

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; single high power 90~305VAC / 120~430VDC; -40~65C

IWMR-3003-1L-2AC-2S-HV-WWP/N: 8699-032

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C

IWMR-3003-1L-2AC-2S-HV-APACP/N: 8699-033

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; single high power 90~305VAC / 120~430VDC; -40~65C

IWMR-3003-1L-2AC-4S-HV-WWP/N: 8699-035

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C

IWMR-3003-1L-2AC-4S-HV-APACP/N: 8699-036

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; single high power 90~305VAC / 120~430VDC; -40~65C

EMMC Flash Storage

8G	P/N: 8850-113
16G	
32G	P/N: 8850-115

Software License

LOAD BALANCING Full Package......P/N: 9000-102

OPTIONAL ACCESSORIES

Management System

InstaAir.....P/N: 9000-121

Cloud Based Fleet Management System for Routers

Multifunction Antenna

■ ANT11000091

5-in-1 omnidirectional antenna – 2G/3G/4G (698-960/1710~2170/2300~2700MHz) MIMO x2 + Wi-Fi 2 4/5GHz MIMO x2 + GPS/GLONASS/GALILEO (1575.42/1602MHz) x1, 3dBi, IP67, cable length: 3M



■ ANT11000092

6-in-1 omnidirectional antenna - 2G/3G/4G (698-960/1710~2170/2300~2700MHz) MIMO x2 + Wi-Fi 2.4/5GHz MIMO x1 + GPS/GLONASS/GALILEO/BeiDou (1561/1575.42/1602MHz) x1 + AM/FM x1 + DSRC x1, 6dBi, IP67, cable length: 30cm



GPS Antenna

ANT12000001

SMA GPS antenna, 28dB, 300m



Cellular Antenna



2G/3G/4G dipole antenna, 791-960/1710~2170/2500~2700MHz, 3dBi, SMA plug, EU



ANT11000042

2G/3G/4G dipole antenna, 704-960/1710~2170MHz, 3dBi, SMA plug, US



■ ANT11000044

2G/3G/4G dipole antenna, 704-960/1710~2690MHz, 1.6dBi, SMA plug, EU



■ ANT11000045

2G/3G/4G dipole antenna, 698-960/1710~2690MHZ, 3dBi, SMA plug, US



Wi-Fi Antenna

ANT11000051

2.4/5GHz SMA dipole Wi-Fi antenna, 3dBi (2.4GHz), 4dBi (5GHz)



ANT11000055

2.4/5GHz SMA dipole Wi-Fi antenna, 6dBi (2.4GHz), 4dBi (5GHz)



ANT11000090

2.4/5GHz omnidirectional Wi-Fi antenna, 802.11ac 3x3 MIMO, 5dBi, IP67, cable length: 3M



Antenna Base

ADA11000052

Magnetic antenna base for Wi-Fi, RP SMA Jack Base, Length: 1M



ADA11000053

Magnetic antenna base for 3G/4G, RP SMA Jack Base, Length: 1M



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