

### **IWMR-3006**

Industrial Multifunction VPN Router w/up to 2x WiFi 11ac + up to 2 LTE 4G + 2 serial ports + 6 Gigabit Ethernet Switch w/ Load Balancing\*\*, TWCC\*\*, VPN, Protocol Gateway, Storage\*\*; 24V input

- Up to 2 concurrent WIFI 11ac and redundancy (1L-2AC model)
- Up to 2 concurrent mobility for 3G/4G LTE Link & GPS (2L-1AC model/4 SIMs)
- Built-in 6 Gigabit Ethernet switch
- Dual radio for 802.11ac/a/b/g/n with concurrent 5GHz & 5GHz bands up to 2.6GMbps Wi-Fi bandwidth(to 2AC model)
- WIFI radio for 802.11ac/a/b/g/n with 5GHz or 2.4GHz;
- Support WIFI 802.11e traffic prioritization and WMM
- MIMO technology 3T3R up 6 antenna(2AC); SMA type external
- Unlimited concurrent WIFI users
- Fast roaming < 50ms\*\*, 802.11r standard
- Supports AP/ BRIDGE/Client modes
- Air-teaming\*\* for WIFI high-sustainability and aggregated bandwidth
- Advanced wireless security WEP64/128bits/ WPA/ WPA-PSK (TKIP\*,AES)/ WPA2/ WPA2-PSK
- Optional TWCC\*\* (Train Wireless Carriage Coupling) for auto wireless coupling
- VPN router for Multi-site VPN, OpenVPN, L2TP, IPSec, PPTP\*\*
- Load Balancing\*\* support 8 mechanism
- Support NAT and Firewall
- Support Modbus or DNP3\*\* gateway on serial ports
- Support 2 RS422/485 ports with 2.5KV isolation or 2x RS232 ports
- Optional storage microSD\*\* for storage backup or multi-media content suit with load-balancing
- Input voltage for 24V model
- Environmental monitoring for router inside info with voltage, current, temperature; WIFI & LTE graphic signal strength & TX/RX rate display
- Editable login page of captive portal for hot-spot application
- USB port to backup, restore the configuration file and upgrade firmware\*; Dual image firmware\*























### **OVERVIEW**

Lantech IWMR-3006 series is a next generation industrial multi-function VPN router w/up to 2x 802.3ac Wi-Fi + up to 2x LTE modem + 6x Gigabit Ethernet switch + 2 serial ports that supports advanced function of VPN, Load-balancing\*\*(Basic & Full package), TWCC\*\*, Protocol gateway(Modbus, DNP3\*\*), Storage\*\*, 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.

Optional TWCC\*\* (Train Wireless Carriage Coupling) for auto coupling

IWMR-3006 series supports optional TWCC\*\* (Train Wireless Carriage Coupling) that enables auto wireless coupling to reconnect APs

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

With dual LTE module design (2L model), 4 SIM card slots, TMR-5002 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 (1L model), 2 SIM card slots, IWMR-3006 provides redundant link between two service



providers.

Both GPS and Russian GLONASS systems are supported.

IEEE 802.11ac dual band radio up to 2.6GMbps bandwidth With IEEE 802.11ac capability, IWMR-3006 can operate either 5GHz or 2.4GHz bands, offering the maximum speed of 2.6GMbps bandwidth (1.3GMbps 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-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\*\* can combines 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-3006 series adapts MIMO technology with smart antenna transmission and reception for 3T3R. With six external detachable omni connectors and optional antennas, IWMR-3006 can have better Wi-Fi & LTE/GPS coverage. It can support unlimited concurrent WIFI users.

#### 802.11r fast roaming <50ms\*\*

IWMR-3006 support fast roaming < 50ms\*\* (optional) in coordination with Lantech Wireless Controller to allow encryption keys to be stored on all of the APs in a network.

Client mode supports PMK\*\* Caching and pre-authentication.

#### Wireless WMM QoS

IWMR-3006 supports 802.11e standard which defines a set of Quality of Service for wireless LAN applications as well as WMM (WIFI multimedia)

#### Advanced security & 16 SSIDs

The security support standards including 64/128bits WEP, WPAWPA2 PSK (TKIP\*, AES), 802.1x\*\* ensures the best security and active defense against security treads. Lantech IWMR-3006 support up to 16 SSIDs, each SSID has its independent security and encryption.

# Load Balancing\*\* with 8 mechanisms for multi-WANs (premium license)

IWMR-3006 supports Load Balancing\*\* for LTE/WAN connections. There are eight schemes for Load Balancing\*\* function:

Pack	Algorithm	Description		
Standard	Fixed	Manually route by traffic type through fixed WAN link.		
Basic Package	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.		

#### 2 port serial connection, Modbus / DNP3\*\* gateway

It builds in 2 port serial connection for RS232, RS422, 485 in which RS422/485 has 2.5KV isolation protection.

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

It also can support optional DNP3\*\* gateway over serial ports

#### VPN and firewall

Besides traditional VPN peer to peer tunneling, IWMR-3006 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, Open VPN, L2TP, IPsec and PPTP\*\* for various VPN applications.

The built-in Layer-4 firewall includes DoS\*\*, IP address filter / Mac address filter\* / TCP/UDP port number.

## DIDO for alarm & email\*\* notice; Event log; Remote Web/SMS\*\* control

2 sets of DIDO functions 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-3006 will immediately send email\*\* and trap.

When the router is at remote area with limited access, Web/SMS\*\* control can help to get router status or remotely rehoot

#### 24V Input voltage range: 9V-60VDC

The IWMR-3006 is able to work from 9VDC to 60VDC dual input range with power isolation.



#### Environmental monitoring for inside router info& alerting; Graphic WIFI & LTE signal strength and TX/RX rate display

The built-in environmental monitoring can detect router ambient temperature, voltage, current where can send the syslog, email\*\* and SMS\*\* alert when abnormal.

The graphic WIFI & LTE signal strength and TX/RX rate display shows connection status at a glance

# Cloud/Host based InstaView\*\*/InstaAir\*\* software for router/fleet management and monitoring

Lantech InstaView\*\* can offer fixed location router central management, configuration, and monitoring via secured Cloud or Host server. InstaAir\*\* can offer fleet router management including the GPS tracking, signal strength, remote configure/upgrade, monitoring/alerting and report function

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

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

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

## Optional USB to microSD\*\* for storage backup or multimedia resources

The optional internal USB to microSD\*\* can have data backup or pre-store the multimedia resources for content application. User can designate the route via load-balancing\*\* scheme to upload/download the data per request.

#### Editable login page of captive portal

The IWMR-3006 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-3006 is designed to meet with industrial network environment with IP 30 housing. It passed serious tests under extensive Industrial EMI and environmental vibration and shocks standards.

With CE & FCC radio certification for WIFI and LTE and E-marking\*\* certificate, the IWMR-3006 is best for outdoor community, vehicle, process control automation etc. For more usage flexibilities, IWMR-3006 supports wide operating temperature from -20°C to 70°C or -40°C to 70°C(-E).

### **FEATURES & BENEFITS**

- High Speed Air Connectivity: WLAN interface support up to 2.6GMbps link speed(2AC) or 1.3GMbps (1AC)
- Built-in 6 Gigabit Ethernet switch
- Dual DC isolated input from 9V~60VDC (24V model)
- Optional TWCC\*\* (Train Wireless Carriage Coupling) for auto wireless coupling
- 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
- 6 SMA type connectors for Wi-Fi & LTE, GPS
- 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
- Unlimited concurrent users
- Output power : <24dBM
- 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-MD5, 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, IPsec and PPTP\*\* fro secured network connection
- The built-in Layer-4 firewall includes DoS\*\*, IP address filter / Mac address filter\* / TCP/UDP port number.
- Support SNMP\*v1/v2c/v3
- NAT/DMZ
- 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 (support by LTE module) connection
- Fast roaming\*\* (Optional ) <50ms between APs by Wireless Controller
- Load Balancing\*\* supports 8 mechanism between



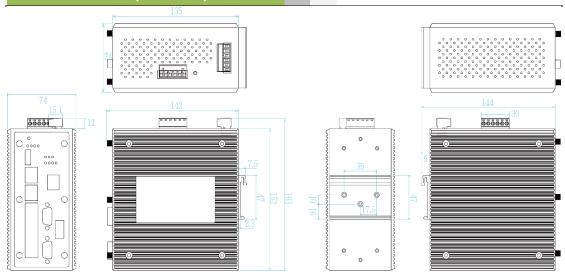
#### multiple WANs

Pack	Algorithm	Description		
Standard	Fixed	Manually route by traffic type through fixed WAN link.		
Basic Package	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 2 x serial ports(RS232/RS422/485)
- Serial port with 2.5KV isolation on RS422/485
- Supports 2DI / 2DO (Digital Input / Output)
- Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP for serial ports
- Optional DNP3 gateway with serial ports
- Event alerting by Syslog, SNMP Trap, Email\*\*, SMS\*\* text, Relay; Permanent local log rotation / Maxi 1K records
- Remote Web/SMS\*\* control to get status or re-boot by Web or SMS\*\*
- Graphic LTE & WIFI signal strength & TX/RX rate display
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Built-in environmental monitoring for system input voltage, current and ambient temperature; Able to set alert when abnormal
- Dual image firmware\* to choose which to start
- Firmware upgradeable through TFTP/FTP/HTTP
- Configuration backup and restoration
  - Supports text configuration file for system quick installation
  - USB port to upload/download firmware by USB dongle
  - InstaView/AIR\*\* for centralized configuration deployment, backup & upgrade
- Reset button for factory default mode
- Support editable captive portal login page
- Optional built-in USB to microSD\*\* for storage backup or multimedia resource
- IP 30 housing for industrial environment
- Cloud/Host based InstaAIR\*\* for router management/configuration/monitoring
- DIN-Rail and Wall-mount\*\* installation
- Operation temperature -20~70C or -40~70C(-E)



## DIMENSIONS (unit=mm)



### SPECIFICATION

SPECII	FICATION		
WLAN Interf	ace		≦-81dBm @ 48Mbps
Operating Mode	AP/BRIDGE/Client modes		≦-80dBm @ 54Mbps
Radio Frequency	DSSS, OFDM		≦-93dBm @ MCS0 (HT20/40)
Type			≦-71dBm/≦-80dBm @ MCS7 (HT20/40)
Wireless Standard	IEEE 802.11ac/n/a 5GHz		≦-90dBm @ MCS0 (VHT20/40/80)
TTITOTOGO OTGITAGIA	IEEE 802.11b/g/n 2.4GHz		≦-69dBm @ MCS8 (VHT20/40/80)
Wireless bandwidth	5GHz: Up to 1300Mbps		≦-66dBm @ MCS9 (VHT40/80
Wilciess ballawidili	2.4GHz: Up to 450Mbps	Encryption Security	WEP: (64-bit,128-bit key supported)
Modulation	802.11b: DSSS		WPA /WPA2 : IEEE802.11i(WEP and AES encryption)
Modulation	802.11a/g:		WPA-PSK (256-bit key pre-shared key supported)
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		OKC** and 802.11r**
	802.11n:		EAP,MD5,EAP,TLS,EAP,TTLS,EAP
			MsCHAPv3 and PEAP **
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac:	Wireless Security	SSID broadcast disable**
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)	Cellular Inte	rface
Operating	IEEE 802.11 a/b/g/n ISM Band,	Location Solutions	GPS, Glonass (EU/Americas)
Frequency	2.412GHz~2.472GHz, 5150MHz~5850MHz		GPS, Glonass, Beidou, Galileo (APAC model only)
Transmission Rate	IEEE802.11ac: up to 1300Mbps	Band Options	APAC & Australia (APAC model)
Transmission Nate	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps		LTE:
	IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps		2100/1800/850/2600/900/850/850/1500/700/2600/19
	IEEE802.11n: up to 450Mbps		00/2300/2500 MHz
IEEE	Output Power Tx +/- 2dB(per chain)		(B1/B3/B5/B7/B8/B18/B19/B21/B28/B38/B39/B40/B4 1)
802.11b/g/n(2.4Gbp	18dBm @ 1~11Mbps		''
s)	18dBm @ 6~54Mbps		EU & USA model
	20/20dBm @ MCS0~MCS7 (HT20/40)		LTE:
	Receiver Sensitivity Rx +/- 2dB		2100/1800/2600/900/800 MHz
	≤-95dBm @ 1~11Mbps		(B1/B2/B3/B4/B5/B7/B12/B13/B20/B25/B26/B29/B30
	≤-92dBm @ 6~18Mbps		/B41)
	≤-88dBm @ 24Mbps		WorldWide (WW model)
	≦-85dBm @ 36Mbps		LTE:
	≤-81dBm @ 48Mbps		2100/1900/1800/1700/850/2600/900/1800/700/700/8/
	≤-80dBm @ 54Mbps		50/850/800/850/700/2300/1500/2500/3500/3700/520
	≤-94dBm @ MCS0 (HT20/40)		0/3600/1700
	≤-76dBm @ MCS7 (HT20/40)		(B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B18/B19/B20/B
IEEE	Output Power Tx +/- 2dB(per chain)		26/B28/B29/B30/B32/B41/B42/B43/B46/B48/B66)
802.11a/n/ac(5Gbp	20dBm @ 6~24Mbps	Data Rates – LTE	APAC & Australia (APAC model)
s)	16dBm @ 36~54Mbps		Downlink (Cat 6): FDD: 300 Mbps
	19/18dBm @ MCS0 (HT20/40)		TDD: 222 Mbps
	16/16dBm @ MCS7 (HT20/40)		Uplink (Cat 6):
	19/18/18dBm @ MCS0 (VHT20/40/80)		FDD: 50 Mbps
	13/13/13dBm @ MCS8 (VHT20/40/80)		TDD: 26 Mbps
	13/13dBm @ MCS9 (VHT40/80)		
	Receiver Sensitivity Rx +/- 2dB		Americas (US model) / EMEA (EU model)
	≤-92dBm @ 6~18Mbps		Downlink (Category 3):
	≦-86dBm @ 24Mbps		100 Mbps (20 MHz bandwidth) 50 Mbps (10 MHz bandwidth)
	≦-84dBm @ 36Mbps		Uplink (Category 3):
	⊒-o-tabin ⊜ Joivibps		opinin (outogory o).



	50 Mbps (20 MHz bandwidth)	Web/SMS** control	
Software	25 Mbps (10 MHz bandwidth	Captive portal Serial long distance	Editable captive portal login page
Software		Maintenance	Software adjustable RS422/485distance Firmware upgradeable through TFTP/FTP/HTTP
IPv6/4	Present	Configuration	Supports text configuration file for system quick
Fast Roaming ** TWCC**	802.11r <50ms(optional) Optional Train Wireless Carriage Coupling for Auto	backup & restore	installation
1000	wireless Coupling		USB port to upload/download firmware by USB
Air-teaming**(2AC)	High sustainability with fail over link		dongle
10/0.40.4	Aggregated bandwidth	Diversity Des	InstaView/AIR** for mass configuration/upgrade
WMM VPN	WIFI multimedia and 802.11e traffic prioritization  Multi-site VPN, Open VPN, PPTP**, L2TP, IPSec		rts & System
Firewall	DoS**, IP address filter / Mac address filter* /	Connectors	10/100/1000T: 6x ports RJ 45 USB x 1
	TCP/UDP port number.		RS-232 connector: 1 x RJ 45
Load Balancing**	8 schemes for multiple WAN(client mode)		Serial connector : 2 DB9
Fixed(standard)	Manually route by traffic type through fixed WAN link.		SIM card slots : 4(2L) or 2(1L)
Basic Package**			SMA connector : 6
Failover	Routes connections through preferred WAN link while		Power & P-Fail connector: 1 x 6-pole terminal block DIDO: 1 x 5-pole terminal block
	others stand-by. Sequentially activate another link if	Serial Baud Rate	1000Kbps high data rate,250kbps normal for RS232 ;
	preferred link failure occurs.		20Mbps high data rate,250kbps normal for
Priority	Routes connections through preferred WAN link while		RS422/485
	others stand-by. Sequentially activate other links if	Serial Data Bits	5, 6, 7, 8
	overflow occurs.	Serial Parity Serial Stop Bits	odd, even, none, mark, space 1, 1.5, 2
Weighted	Evenly distribute the traffic over all working WAN links	RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Round-Robin	in circular order according to the specified weights	RS-422	Tx+,Tx-, Rx+, Rx-,GND
Custom Route	Routing through the selected WAN for each specific	RS-485 (2-wire)	Data+, Data-,GND
	traffic ex: TCP/UDP port number and IP address.	Isolation protection	RS422/485 2.5KV isolation; 8KV contact & 15KV air
Full Package incl. B			RS232 8KV contact and 15KV air ESD
Sticky Session*	Binding all connections in an application session to		DIDO 3KV isolation Input power 1.5KVA isolation
	particular WAN link to ensure all connections in the	Micro SD	128G or 256G(MSD model)
	session are routed to the same WAN link , that is	Protocol	2 Digital Input (DI) :
	suitable for security services like online payment etc.		Level 0: -30~2V / Level 1: 10~30V
Smallest load*	Routes connections through the WAN link with		Max. input current:8mA
	highest free bandwidth ratio.  The ratio = 1 - (traffic load / the capability of a WAN		2 Digital Output(DO): Open collector to 40 VDC, 200mA
	link).	LED Indicate	**
	The traffic load could be defined by downstream,	Power & System	Per unit: Power 1 (Green), Power 2 (Green), P-Fail
	upstream or total traffic	indicator	(Red), Ring Master(Green), Storage(Green),
Fastest*	Routes connections through the WAN link with lowest	10/100/1000Base-T	Serial1/Serial2(Green) Link/Activity (Green), Speed (Yellow)
0 "	latency time.	(X) port indicator	Link Activity (Green), Speed (Tellow)
Security	WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/ WPA2-PSK	SIM	Green for Link/Act
	(TKIP*,AES)/SSH/SSL/HTTPS	GPS	Green for Link/Act
Authentication	Radius Authentication, EAP-MD5, EAP-TLS,	Fault	Red: Ethernet link down or power down
	EAP-TTLS ,PEAP; SSID broadcast disable	Fault contac	t
SSID	supported** 16 sets	Relay	Relay output to carry capacity of 1A at 24VDC
Login Security	Supports IEEE802.1x** Authentication/RADIUS	Power	
	Supports IEEE602.1X Authentication/RADIOS	FOWEI	
Access Security	HTTP/HTTPS/Telnet/SSH & Administration;	Input power	Dual DC isolated inputs, 9~60VDC
	HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via	Input power Power consumption	Dual DC isolated inputs, 9–60VDC 30.5W (1L1AC)
Access Security	HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3)	Input power Power consumption (Typ.)	30.5W (1L1AC)
	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,	Input power Power consumption (Typ.) Physical Cha	30.5W (1L1AC)  aracteristic
Access Security	HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3)	Input power Power consumption (Typ.) Physical Characteristics Enclosure	30.5W (1L1AC)  aracteristic  IP 30 aluminum case
Access Security	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(Do5**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**,	Input power Power consumption (Typ.) Physical Cha	30.5W (1L1AC)  aracteristic
Access Security Protocol	HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPD6 Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS*	Input power Power consumption (Typ.) Physical Characteristics Enclosure Dimension	30.5W (1L1AC)  aracteristic  IP 30 aluminum case  74 (W) x 142 (D) x 152 (H) mm  1000g
Access Security Protocol Protocol Gateway	HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPD6 Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports	Input power Power consumption (Typ.) Physical Chi Enclosure Dimension Weight	30.5W (1L1AC)  aracteristic  IP 30 aluminum case  74 (W) x 142 (D) x 152 (H) mm  1000g
Access Security  Protocol  Protocol Gateway  Management	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI	Input power Power consumption (Typ.) Physical Characteristics Enclosure Dimension Weight Environmen Storage Temperature	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)
Access Security  Protocol  Protocol Gateway  Management Client mode	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication.	Input power Power consumption (Typ.) Physical Characteristics Enclosure Dimension Weight Environmen Storage Temperature Operating	30.5W (1L1AC)  aracteristic  IP 30 aluminum case  74 (W) x 142 (D) x 152 (H) mm  1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-4°F ~ 158°F)
Protocol Gateway Management Client mode Environmental	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication. System status for input voltage, current, ambient	Input power Power consumption (Typ.) Physical Characteristics Enclosure Dimension Weight Environmen Storage Temperature	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)
Access Security  Protocol  Protocol Gateway  Management Client mode	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication.	Input power Power consumption (Typ.) Physical Cha Enclosure Dimension Weight Environmen Storage Temperature Operating Temperature	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-4°F ~ 158°F)  -40°C ~ 70°C (-40°F ~ 158°F)(-E) 5% to 95% Non-condensing
Protocol Gateway Management Client mode Environmental	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication. System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if	Input power Power consumption (Typ.)  Physical Cha Enclosure Dimension Weight Environmen Storage Temperature Operating Temperature Operating Humidity	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-4°F ~ 158°F)  -40°C ~ 70°C (-40°F ~ 158°F)(-E) 5% to 95% Non-condensing
Protocol  Protocol Gateway  Management Client mode Environmental Monitoring Graphic signal display	HTTP/HTTPS/Telnet/SSH & Administration; SNMP*v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) PPD6 Client,DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall(Pirewall(Do5**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication. System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status Graphic WIFI & LTE signal strength & TX/RX rate display	Input power Power consumption (Typ.)  Physical Cha Enclosure Dimension Weight Environmen Storage Temperature Operating Temperature Operating Humidity Regulatory a	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-4°F ~ 158°F) -40°C ~ 70°C (-40°F ~ 158°F)(-E) 5% to 95% Non-condensing approvals  FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS),
Access Security  Protocol  Protocol Gateway  Management  Client mode  Environmental  Monitoring  Graphic signal	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication. System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status Graphic WIFI & LTE signal strength & TX/RX rate display Built-in Real Time Clock to keep track of time	Input power Power consumption (Typ.) Physical Character Enclosure Dimension Weight Environmen Storage Temperature Operating Temperature Operating Humidity Regulatory a EMC	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-40°F ~ 158°F) -40°C ~ 70°C (-40°F ~ 158°F)(-E) 5% to 95% Non-condensing approvals  FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge),
Protocol  Protocol Gateway Management Client mode Environmental Monitoring  Graphic signal display Timer	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication. System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status Graphic WIFI & LTE signal strength & TX/RX rate display Built-in Real Time Clock to keep track of time always(RTC)	Input power Power consumption (Typ.)  Physical Cha Enclosure Dimension Weight  Environmen Storage Temperature Operating Temperature Operating Humidity  Regulatory a  EMC EMS	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-40°F ~ 158°F)  -40°C ~ 70°C (-40°F ~ 158°F)  -5% to 95% Non-condensing  approvals  FCC* Part 15 Class A, EN55032*  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
Protocol  Protocol Gateway  Management Client mode Environmental Monitoring  Graphic signal display Timer  Discovery	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication. System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status Graphic WIFI & LTE signal strength & TX/RX rate display Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocal (LLDP)	Input power Power consumption (Typ.)  Physical Cha Enclosure Dimension Weight Environmen Storage Temperature Operating Temperature Operating Humidity Regulatory a EMC EMS  E-marking**	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-4°F ~ 158°F)  -40°C ~ 70°C (-40°F ~ 158°F)(-E)  5% to 95% Non-condensing  approvals  FCC* Part 15 Class A, EN55032*  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 E13
Protocol  Protocol Gateway Management Client mode Environmental Monitoring  Graphic signal display Timer	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication. System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status Graphic WIFI & LTE signal strength & TX/RX rate display Built-in Real Time Clock to keep track of time always(RTC)	Input power Power consumption (Typ.)  Physical Cha Enclosure Dimension Weight  Environmen Storage Temperature Operating Temperature Operating Humidity  Regulatory a  EMC EMS	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-40°F ~ 158°F)  -40°C ~ 70°C (-40°F ~ 158°F)  -5% to 95% Non-condensing  approvals  FCC* Part 15 Class A, EN55032*  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
Protocol  Protocol Gateway  Management Client mode Environmental Monitoring  Graphic signal display Timer  Discovery	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(Firewall(DoS**; IP address filter / Mac address filter* / TCP/UDP port name ),VRRP**, DDNS* Modbus / DNP3** on serial ports SNMP*v1,v2c,v3/ Web/Telnet/CLI PMK** Caching and pre-authentication. System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status Graphic WIFI & LTE signal strength & TX/RX rate display Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocal (LLDP) Device cold / warm start	Input power Power consumption (Typ.) Physical Cha Enclosure Dimension Weight Environmen Storage Temperature Operating Temperature Operating Humidity Regulatory a EMC EMS E-marking** MTBF	30.5W (1L1AC)  aracteristic  IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g  tal  -40°C ~ 85°C (-40°F ~ 185°F)  -20°C ~ 70°C (-40°F ~ 158°F)  -40°C ~ 70°C (-40°F ~ 158°F)(-E) 5% to 95% Non-condensing  approvals  FCC* Part 15 Class A, EN55032*  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 E13 NA



### **RF Performance Table**

	Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
2.4GHz 802.11b	1Mbps	20dBm	25dBm	±2dB	-95dBm	±2dB
	2Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	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	-92dBm	±2dB
2.4GHz	18Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
802.11g	24Mbps	21dBm	26dBm	±2dB	-88dBm	±2dB
	36Mbps	20dBm	25dBm	±2dB	-85dBm	±2dB
	48Mbps	19dBm	24dBm	±2dB	-81dBm	±2dB
	54Mbps	18dBm	23dBm	±2dB	-80dBm	±2dB
	MCS 0	21dBm	26dBm	±2dB	-94dBm	±2dB
	MCS 1	21dBm	26dBm	±2dB	-91dBm	±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	-78dBm	±2dB
	MCS 6	18dBm	23dBm	±2dB	-78dBm	±2dB
	MCS 7	16dBm	21dBm	±2dB	-76dBm	±2dB
	MCS 0	20dBm	25dBm	±2dB	-92dBm	±2dB
	MCS 1	20dBm	25dBm	±2dB	-89dBm	±2dB
	MCS 2	20dBm	25dBm	±2dB	-87dBm	±2dB
2.4GHz	MCS 3	19dBm	24dBm	±2dB	-82dBm	±2dB
802.11n HT40	MCS 4	19dBm	24dBm	±2dB	-80dBm	±2dB
	MCS 5	19dBm	24dBm	±2dB	-78dBm	±2dB
	MCS 6	18dBm	23dBm	±2dB	-77dBm	±2dB
	MCS 7	16dBm	21dBm	±2dB	-73dBm	±2dB

	Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
5GHz	6Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	9Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	12Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
	18Mbps	20dBm	25dBm	±2dB	-90dBm	±2dB
802.11a	24Mbps	20dBm	25dBm	±2dB	-86dBm	±2dB
	36Mbps	18dBm	23dBm	±2dB	-84dBm	±2dB
	48Mbps	16dBm	21dBm	±2dB	-81dBm	±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
5GHz	MCS 3	18dBm	23dBm	±2dB	-83dBm	±2dB
802.11n/ac VHT20	MCS 4	18dBm	23dBm	±2dB	-80dBm	±2dB
VH120	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
5GHz 802.11n/ac	MCS 3	17dBm	22dBm	±2dB	-82dBm	±2dB
VHT40	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
	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
5GHz	MCS 3	17dBm	22dBm	±2dB	-83dBm	±2dB
	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
802.11ac VHT80	MCS 5	16dBm	21dBm	±2dB	-78dBm	±2dB
VH160	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 INFOMATION**

For -40~70C operational temperature model, the model name will add -E

- IWMR-3006-2L-1AC-2S-24V-EUNA......P/N: 8626-011
  - Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing\*\* AP VPN Mobile Router w/ 2 RS232 serial ports and 6 Giga Port switch; EU and US band; dual isolated 9V~60VDC; -20~70C
- IWMR-3006-2L-1AC-2S-24V-APAC P/N: 8626-012
  Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing\*\* AP VPN Mobile Router w/ 2 RS232 serial ports and 6 Giga Port switch; APAC band; dual isolated 9V~60VDC; -20~70C

- IWMR-3006-2L-1AC-2SA-24V-APAC P/N:8626-0121
  Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing\*\* AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 6 Giga Port switch; APAC band; dual isolated 9V~60VDC; -20~70C

Giga Port switch; APAC band; dual isolated 9V~60VDC; -20~70C



#### Built-in Micro SD for router 3000 series

Built-in USB to MicroSD 128GB Module	P/N:8850-210
Built-in USB to MicroSD 256GB Module	P/N:8850-213
Software License	
LOAD BALANCING Basic Package	P/N: 9000-101
LOAD BALANCING Full Package	P/N: 9000-102
TWCC	P/N: 9000-103
DNP3 GATEWAY	P/N: 9000-106

■ WIRELESS ROAMING......P/N: 9000-107

### **OPTIONAL ACCESSORIES**

#### LTE Antenna

■ ANT11000041 791-960/1710~2170/2500~2700MHZ, SMA plug, EU ■ ANT11000042 704-960/1710~2170MHZ, SMA plug, US

#### Wireless Connector Adapter

■ ADA11000052 RP SMA Jack Base, Length: 1M

### Wireless Antenna

■ ANT11000050 2.4G&5.8GHz SMA Omni-directional / dipole antenna, 2dBi or 5.8GHz 3dBi

**ANT11000051** 2.4G&5.8GHz SMA Omni-directional / dipole antenna, 5dBi

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