YZW001L

4G industrial router • optional 5G



Industrial automation

Energy & metering

Smart city

Building automation

Edge networking

64 Protocol Options

Node-RED

MQTT

5 × Gigabit

DATASHEET

Features

Cellular

Cellular data rates	Standard 4G: LTE Cat 4, FDD downlink 150 / uplink 50 Mbps, TDD downlink 130 / uplink 30 Mbps. Optional 5G Sub-6: SA downlink 2 Gbps / uplink 1 Gbps; NSA downlink 2.2 Gbps / uplink 575 Mbps. Actual capability follows the selected module
Cellular status	RSSI, SINR, RSRP, RSRQ, serving band, IMSI and ICCID
APN and authentication	Configurable APN and account settings with NONE, PAP, CHAP or PAP+CHAP authentication
PDP IP type	IPv4, IPv6 or dual-stack IPv4v6 cellular data connections
SIM switching	Single cellular modem with per-SIM profiles and switching policies; dual SIM does not mean two concurrent cellular links

Wireless

Wireless operating mode	2.4 GHz IEEE 802.11b/g/n/ax and 5 GHz IEEE 802.11a/n/ac/ax; AP or STA mode
Channel widths	2.4 GHz: 20/40 MHz; 5 GHz: 20/40/80/160 MHz; available channels depend on the configured regulatory region
Wi-Fi security	WPA/WPA2/WPA3 and WPA2/WPA3 mixed modes with AES encryption
SSID and clients	Configurable SSID broadcast and AP isolation; multiple wireless clients in AP mode

Ethernet

Ports	5 × RJ45 ports, 10/100/1000 Mbps with auto MDI/MDIX; default 1 × WAN + 4 × LAN
WAN/LAN roles	Configurable from 1WAN+4LAN to 4WAN+1LAN, retaining at least 1 LAN management port

Network

Routing	Static routes with destination network, gateway, outgoing interface and route metric settings
Network protocols	TCP, UDP, IPv4/IPv6, ICMP, ARP, DHCP, DNS, NTP, HTTP/HTTPS, SSH2 and MQTT
WAN access	Static IP, DHCP and PPPoE uplinks with IPv4/IPv6 configuration
WAN/LAN port roles	Default 1WAN+4LAN; configurable as 2WAN+3LAN, 3WAN+2LAN or 4WAN+1LAN; at least 1 LAN port is retained
Connection monitoring	ICMP reachability checks with configurable primary/backup targets, source interface, interval, retry count and recovery action
DHCP	IPv4 DHCP server with address pool, lease time, gateway/DNS settings and static IP-to-MAC assignments; configurable stateful/stateless IPv6 address allocation
Cellular link monitoring	Cellular connectivity monitoring with configurable IPv4/IPv6 probe targets
NAT	IPv4 DNAT, SNAT, MASQ and DMZ rules for port forwarding and address translation
QoS	Upload/download traffic rules by interface, subnet and optional port, with base rate, ceiling rate and priority settings
DDNS	Configurable DDNS provider, account/token, domain and update interval, with an IPv6 update option
Uplink failover	Link priority, ICMP health checks and primary/backup uplink failover
Load balancing	Uplink traffic distribution by source IP or session, with ICMP link health checks
Uplink policy constraints	Load balancing cannot operate together with multi-link primary/backup policies or WireGuard IPv4 full-tunnel routing; it does not aggregate bandwidth for a single connection
VLAN	Up to 10 entries, VID 4–4094; Tagged/Untagged VLAN traffic on available LAN ports, with per-VLAN IPv4 subnet and DHCP server settings

Security

Firewall	Stateful packet filtering with management-service access controls by network zone
Attack prevention	Configurable DDoS limiting, IP-spoofing, port-scan and SYN-flood rules, with multicast and IDENT restrictions
Address filtering	Blacklist/whitelist modes with IP-only, MAC-only or combined IP/MAC filtering, and protocol, port and interface-based access rules
LAN Internet access restriction	When enabled, blocks direct Internet forwarding from LAN clients through ordinary uplinks; retains local LAN communication and VPN/m2mCloud forwarding, subject to the other firewall rules
Domain filtering	Disabled, blacklist or whitelist modes with configurable domain rules

VPN

OpenVPN	Two client instances and an independently running server
WireGuard	IPv4 encrypted tunnels with up to 10 peers, optional pre-shared keys, persistent keepalive and remote-subnet routes
ZeroTier	Join up to 10 ZeroTier virtual networks, with configurable acceptance of controller-managed addresses and routes; controller authorization is required
IPsec	IKEv1/IKEv2, pre-shared-key authentication, tunnel/transport modes and local/remote subnet configuration
L2TP	L2TP client/server with PPP authentication, client address pools and subnet routes; L2TP itself does not encrypt traffic
DMVPN	Hub/Spoke dynamic multipoint VPN using mGRE, NHRP and IPsec
VXLAN	VXLAN Layer 2 tunnels with VNI, remote endpoint and UDP port settings; VXLAN itself does not encrypt traffic
GRE	GRE tunnels for existing-network interconnection; GRE itself does not encrypt traffic
PPTP	PPTP client/server with account authentication and PPP settings for legacy-network compatibility

PLC & Instrument Acquisition

Protocol options	64 protocol variants: 39 network and 25 serial options; selected according to the connected PLC or instrument
PLC families	Siemens S7/PPI, Mitsubishi MC/FX, Omron FINS/HostLink/CIP, Inovance, Keyence, Delta, Panasonic, Xinje, Beckhoff ADS, Allen-Bradley and others
Instrument protocols	Modbus TCP/RTU/ASCII and over-TCP variants, CJ/T 188, DL/T 645, DL/T 698 and IEC 60870-5-104 options
Configuration capacity	Up to 10 connections and 2500 points per connection; up to 10000 enabled points in total with the standard 512 MB RAM configuration; these are configuration limits, not scan-rate guarantees
Point configuration	Point name, identifier, address, data type and read/write mode; configurable per-connection polling interval
Point-table management	CSV import/export, point editing and monitoring; available operations depend on the selected protocol
Serial-port ownership	Each physical serial port is exclusive to one PLC, Modbus RTU, DTU, cloud remote-serial or Node-RED instance; different ports can operate independently

PLC Data Reporting

Reporting protocol	MQTT; up to 10 reporting rules, each selecting 1 or more configured PLC data sources
Message format	Format 1 JSON: deviceId, deviceName, params, status, reason, because; params point objects contain identifier, name, source, type and string value; report status is numeric 0/1, not a write reply
Connection and topics	Server, port, credentials, 1–86400 s reporting period, publish/subscribe/reply topics and CA certificate; optional SN suffix is configured independently for each topic

Node-RED

Flow development	Built-in Node-RED 3.0.2, enabled in standard shipments, with browser-based flow editing and persistent flow storage in NAND Flash
Installed nodes	Modbus TCP/serial nodes, MQTT and serial runtime components; additional packages require compatibility with the installed runtime
Maintenance	Runtime status, editor access, download-source settings, admin password change, runtime-package upgrade and flow reset
Serial-port ownership	Each physical serial port is exclusive to one PLC, Modbus RTU, DTU, cloud remote-serial or Node-RED instance; different ports can operate independently

PLC Cloud Writes over MQTT

Downlink topic	Publish to the enabled rule's effective subscription topic, not its publish/reply topic; when SN suffix is enabled, append /SN using the device's actual SN
JSON fields	A single JSON object, 1–4096 UTF-8 bytes; identifier/name/addr selectors and value are strings; source or data_source is a data-source name selected in this rule
Example request	{"source":"PLC_A","identifier":"1","value":"25.5"}
Matching and permissions	Use source + identifier for unambiguous selection; without source, the first matching point in rule source order is used; the point must be writable and its value/type valid
Execution result	With a reply topic configured, replies contain status=success/failure, reason and the request in data; write_applied means protocol-write success, not physical-state readback; reply QoS is 0
Reply example	{"status":"success","reason":"write_applied","data": {"source":"PLC_A","identifier":"1","value":"25.5"}}
Failure handling	Missing/read-only points, invalid values or unavailable connections can fail writes; a timeout or absent reply does not prove no write occurred; read back before retrying
Safety and format boundary	Use retain=false and compatible PLC programming/access policies; this string-value format and execution reply do not apply to the independent Modbus collector

Modbus Acquisition & Reporting

Acquisition mode	Modbus TCP/RTU master polling with device and command configuration; RTU uses an available Serial1–Serial2 port
Read function codes	01 Read Coils; 02 Read Discrete Inputs; 03 Read Holding Registers; 04 Read Input Registers
Data types and byte order	Web-selectable types: signed/unsigned 16-bit integers; signed/unsigned 32-bit integers (ABCD); 32-bit floating point (ABCD/CDAB byte order)
Device and command management	Up to 16 device connection profiles and 32 commands per profile; each RTU profile exclusively owns its selected serial port, with slave addresses configured per command
Command configuration	Command name, slave address, Modbus register start/count, IEC104 mapping address, Writable flag and per-command polling period
Acquisition and reporting timing	Per-command polling period: 1–86400 s; response timeout: 30–120000 ms; MQTT/TCP/UDP periodic reporting interval: 1–86400 s
Data reporting	MQTT/TCP/UDP: immediate or periodic reporting; in periodic mode, each point's first sample is sent immediately and later reports use fresh samples only; IEC104 updates immediately
MQTT settings	Broker address/port, account authentication and CA certificate configuration; per-device publish/subscribe topics, with MQTT downlink writes for writable commands
IEC 60870-5-104 settings	Communication port, common address and information object address (IOA) mapped from each command's mapping address; the IOA is not the slave's Modbus register address
Serial-port ownership	Each physical serial port is exclusive to one PLC, Modbus RTU, DTU, cloud remote-serial or Node-RED instance; different ports can operate independently

Modbus Cloud Writes over MQTT

Connection prerequisites	Enable Modbus collection and select MQTT reporting. Connect the cloud client and collector to the same MQTT broker, with the required authentication and topic permissions; TCP/UDP reporting does not accept MQTT downlink writes
Device-side configuration	Configure the target device connection and commands, including slave address, read function, start address, quantity and data type. Enable Writable for each controlled command; its name becomes the JSON key
Downlink topic	Set a non-empty, device-specific Subscribe topic. The cloud publishes to this exact topic, not the device's Publish topic. Avoid shared control topics and +/# wildcards
JSON payload	Use a flat JSON object, e.g. {"command_name":123}. Each key matches a configured command name and each value is a JSON number; no device-ID, address, function-code or nested data envelope is required
Integer and coil example	Topic: plant/site1/plc1/set; payload: {"run":1,"setpoint":1200}. Configure run as a writable coil and setpoint as a writable uint16 holding-register command before sending
Floating-point example	{"temperature_set":25.5}; temperature_set must be a writable floating-point holding-register command with the correct byte order and at least 2 consecutive registers configured
Coil write	A writable command configured for read function 01 uses write function 05. Send numeric 0 or 1 for OFF or ON; JSON false/true are not accepted as numeric values
Holding-register write	A writable command configured for read function 03 uses write function 06 for a 16-bit value, or function 16 (0x10) for a 32-bit value occupying 2 consecutive registers
Read-only areas	Read functions 02 (discrete inputs) and 04 (input registers) are not writable, even if Writable is enabled. Unconfigured or non-writable commands are skipped
Value validation	Use values within the configured type's range. Integer types reject fractional values; floating-point commands accept finite numbers. Strings, Boolean values, arrays, objects and null are not write values
Address and byte order	The collector reuses the configured slave and 0-based Modbus PDU start address, then encodes the value using the configured type/byte order. Mapping addresses are not MQTT downlink selectors; apply any slave-specific scaling in the cloud
Multiple commands and arrays	An object may contain multiple command keys, processed independently rather than as an atomic transaction. Each key writes a scalar at its configured start address; arbitrary register-array block writes are not supported
Payload size	Payload length: 1–511 bytes after UTF-8 encoding. Empty payloads and messages of 512 bytes or more are discarded; send valid JSON with numeric values
Execution confirmation	MQTT delivery is not Modbus execution confirmation. There is no dedicated MQTT write-response payload; check subsequent collected readback and device logs. Disconnections, a full queue or slave errors may prevent a write
Control-message safety	Publish control messages with retain=false to avoid replaying old commands when subscriptions reconnect. Restrict write access using broker topic permissions and prevent unconfirmed or repeated control actions
Example and firmware scope	The topics, command names and values above are examples, not defaults; configure them against the slave register map. Requires collector firmware with MQTT downlink writes; available types and byte orders follow the delivered firmware

Application Services

DTU transparent transmission	Serial-to-TCP/UDP client or server operation, with primary/backup servers, login data, heartbeat and timeout settings
DTU MQTT	Serial data over MQTT using plain TCP or TLS; configurable CA certificate, credentials, client ID, publish/subscribe topics, QoS 0/1/2 and keepalive
Modbus protocol gateway	Bidirectional protocol conversion between Modbus TCP and serial Modbus RTU/ASCII, for connection to a serial master or slave device
DNP3 forwarding	Bidirectional DNP3 frame forwarding between serial and TCP; active TCP connection (master) or incoming TCP connection (outstation)
MQTT Broker	Local MQTT broker with plain/TLS transport, listen address/port, anonymous or username/password authentication and server certificate/key settings
SNMP	SNMPv2c/SNMPv3 management and SNMPv2c Trap reporting; configurable community, Trap destination and SNMPv3 authentication/privacy parameters
Scheduled tasks	Scheduled device or cellular-modem restart by day of week and time
SMS	SMS sending with character-set selection and a trusted-number list
SMTP and event alarms	SMTP email with optional STARTTLS/TLS; email/SMS notifications for configured events such as weak signal, modem-status changes, failed logins and firewall attacks
Network diagnostics	Ping and traceroute diagnostics with configurable target and source IP

Management & Maintenance

WEB UI	HTTP/HTTPS management for status, configuration and maintenance; HTTPS is enabled through the management-access settings
CLI	SSH2/Telnet command-line access with configurable management-service permissions
Administrator password	Only supports changing the password of the existing admin account
Configuration management	Configuration export/import and factory reset
Logs	Event/system logs, service runtime status and remote-log server/port settings
Time synchronization	NTP server and backup server, synchronization interval and time-zone settings, plus manual time entry

m2mCloud Remote Access

Remote networking	Cloud-authorized L3 routed or L2 bridged access to on-site networks; the tunnel mode is assigned by the cloud platform
Connectivity	Peer-to-peer connectivity or server relay, subject to network conditions and platform authorization; a public IP is not required at the site
Remote subnets	Up to 10 remote IPv4 subnet routes in L3 mode; rules remain saved but inactive in L2 mode; default routes are not accepted
Program upload/download	Use compatible vendor PLC/HMI programming tools for remote program upload/download, debugging and maintenance over the authorized channel
Remote serial access	Authorized access with the platform serial-proxy client; the selected physical port must be available
Connection recovery	Automatic reconnection of the cloud management session and tunnel after connectivity recovers, with valid platform authorization
Operational benefits	Centralized remote access for distributed sites, reducing on-site visits and repeated local network setup; compatibility depends on the end device and vendor tool

Hardware Features

CPU	MT7981B, dual-core ARM Cortex-A53, 1.3 GHz
RAM	512 MB DDR3
Flash	512 MB SPI NAND Flash as standard
Storage option	Custom 32 MB SPI NOR + 4–32 GB eMMC configuration; specify when ordering
GPS option	Optional onboard GPS; specify when ordering

Firmware

Update	Web firmware upload with a choice to retain the configuration or restore factory settings after upgrade

System Characteristics

Operating system	OpenWrt-based Linux
Kernel version	Linux 5.4
Script runtimes	Shell, Python 3.9.17 and Node.js 18.16.1

Power

Connector	Round DC power socket, 9–36 V DC input (nominal 12 V DC)
Input voltage range	9–36 V DC as standard; optional 9–48 V DC version specified when ordering
Power consumption	< 5 W; power depends on the fitted modules and operating state

Physical Interfaces (Ports, LEDs, Antennas, Buttons, SIM)

Ethernet	5 × RJ45 Gigabit Ethernet ports; default 1 × WAN + 4 × LAN
Serial	1 × RS232 + 1 × RS485 as standard; Serial1–Serial2 software identities
Status LEDs	11 LEDs: SYS, NET, SIG, WIFI, SIM1, SIM2, LAN1–LAN4 and WAN
SIM	2 × external drawer-type SIM holders, 3.3 V; single modem with SIM switching
Power	Round DC power socket, 9–36 V DC input (nominal 12 V DC)
Antenna connectors	Standard 4G: 2 cellular SMA + 2 Wi-Fi SMA. Optional 5G: 4 cellular SMA + 2 Wi-Fi SMA. Optional GPS uses ANT-RES, replacing one Wi-Fi antenna
Reset	1 × reset button; release before 5 s to reboot; hold for at least 5 s and release to restore factory settings

Physical Specification

Casing material	Metal enclosure
Dimensions (W × H × D)	174.00 × 97.70 × 27.00 mm
Weight	470 g
Mounting	Mounting ears

Operating Environment

Operating temperature	−30 °C ~ 75 °C
Operating humidity	< 95 % non-frosting
Ingress protection	IP30

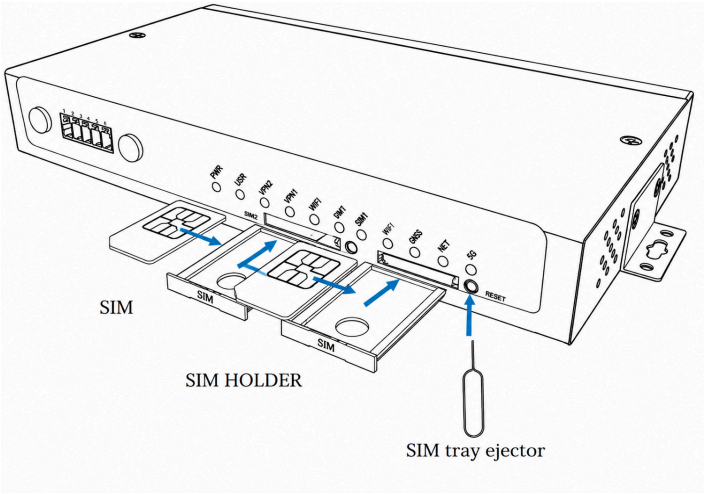
EMC Reference Standards

Standards	Draft EN 301 489-1 V2.2.0, Draft EN 301 489-17 V3.2.0, Draft EN 301 489-52 V1.1.0, FCC 47 CFR Part 15B (2017), ANSI C63.4 (2014)
ESD	EN61000-4-2: 2009
RS	EN 61000-4-3: 2006 + A1: 2008 + A2: 2010
EFT	EN 61000-4-4: 2012
Surge immunity (AC Power Line)	EN 61000-4-5: 2006
Surge immunity (Ethernet ports)	EN 61000-4-5: 2014, clause 7.1 of ITU-T K21
CS	EN 61000-4-6: 2009
DIP	EN 61000-4-11: 2004

DATASHEET

Hardware Installation

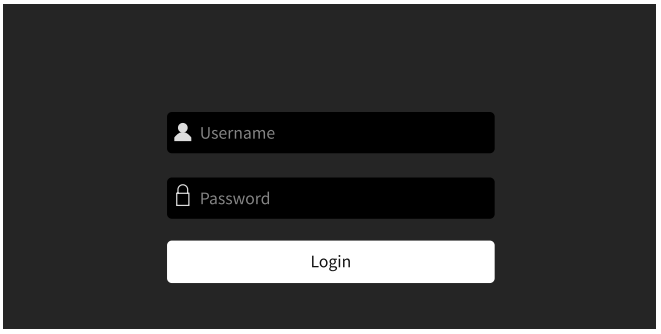
1. Press the SIM-holder eject button with the ejector tool. Pull out the tray, insert the SIM card and slide the tray back into the device.
2. Attach cellular and Wi-Fi antennas to the corresponding SMA connectors. With the GPS option, connect the GPS antenna to ANT-RES.
3. Connect the adapter to the round DC socket. Standard input is 9–36 V DC; nominal supply is 12 V DC.
4. Connect an Ethernet cable to a LAN port, or connect to Wi-Fi using the device label and delivery documents.



SIM card installation

Login to Device

1. Confirm the management address from the device label or delivery documents; the default is http://192.168.8.1.
2. Log in using the supplied credentials.
3. Check cellular connectivity and signal status, and adjust antenna placement as required.



A. WebUI login example

Status	Connected (1 day 5 hour 1 min)
Signal	29[-55dbm]
Network Type	lte
Operator	CHINA MOBILE
SIM Status	SIM1 Ready
SIM ICCID	89860875********3901
SIM IMSI	46013******3901
Module IMEI	867997*****4786
Module Version	China-Mobile-ML307R (ML307R-DL-MBRH0S00)
IP	10.51.125.123/24

B. Dial-information example (7621 UI illustration; identifiers masked)

Technical Information

Radio Specifications

RF technologies	4G standard / 5G optional; 2.4/5 GHz Wi-Fi; optional GPS
Maximum RF power	25 dBm @ 5G NR; 20.5 dBm @ Wi-Fi

Bundled Accessories Specifications*

Cellular antenna	Two 4G antennas as standard; four antennas with 5G; match bands, gain and leads to the cellular module
Wi-Fi antenna	2400~2500 / 5150~5850 MHz, 50 Ω, gain** 3 dBi, SMA male connector

Accessories depend on the order. RF parameters depend on fitted modules, bands and operating state; longer antenna feeders cause greater signal attenuation. Antennas must comply with local regulations.

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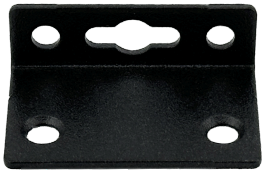
What's in the Box

- 1 × YZW001L device (Standard)
- 1 × Packaging box (Standard)
- 2 × 4G/5G antenna (Standard)
- 2 × Wi-Fi antenna (Standard)
- 1 × 12 V DC power adapter (Standard)
- 1 × Ethernet cable, 1 m (Standard)
- 1 × 5-pin screw terminal (Standard)
- 1 pair × Mounting ears (Standard)
- 1 × GPS antenna (Optional)
- 4 × 5G cellular antenna (With selected option)





YZW001L
Standard • 1

 Wi-Fi antenna Standard • 2	 12 V DC power adapter Standard • 1	 Ethernet cable, 1 m Standard • 1
 5-pin screw terminal Standard • 1	 Mounting ears Standard • 1 pair	 4G/5G antenna Standard • 2 5G optional (With selected option) • 4
 GPS antenna Optional • 1		

Standard accessories are supplied with the base configuration; optional accessories are selected separately. The 4G and 5G antennas share the same appearance. 5G is optional; use the quantity matched to the device, without adding the 4G set. Optional GPS replaces one Wi-Fi antenna at ANT-RES.

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Available Versions

Product	Region	Frequency
YZW001L (CN)	China, India	4G standard • 4G (LTE-FDD): B1, B3, B5, B8 4G (LTE-TDD): B34, B38, B39, B40, B41 WCDMA : B1 , B5 , B8 GSM/ EDGE : B3 , B8
YZW001L (EU)	Europe	4G standard • 4G (LTE-FDD): B1, B3, B5, B7 , B8, B20 , B28 4G (LTE-TDD): B38, B40, B41 WCDMA : B1 , B5 , B8 GSM/ EDGE : B3 , B8
YZW001L (AU)	Latin America , Australia , New Zealand	4G standard • 4G (LTE-FDD): B1, B2 , B3, B4 , B5, B7 , B8, B28 , B66 4G (LTE-TDD): B40 WCDMA : B1 , B2 , B4 , B5 , B8 GSM/ EDGE : B2 , B3 , B5 , B8
YZW001L (EL)	Europe , Asia Pacific	4G standard • 4G (LTE-FDD): B1, B3, B5, B7 , B8, B20 , B28 4G (LTE-TDD): B38, B40, B41 WCDMA : B1 , B5 , B8
YZW001L(CN/SEA)	China / SE Asia	5G optional • 5G (NR SA): n1, n28, n41, n77, n78, n79 5G (NR NSA): n41, n78, n79 4G (LTE-FDD): B1, B2, B3, B5, B7, B8, B20, B28 4G (LTE-TDD): B34, B38, B39, B40, B41 WCDMA: B1, B2, B5, B8 5G (NR NSA): n41, n78, n79 4G (LTE-FDD): B1, B2, B3, B5, B7, B8, B20, B28 4G (LTE-TDD): B34, B38, B39, B40, B41 WCDMA: B1, B2, B5, B8
YZW001L(EU)	Europe	5G optional • 5G (NR NSA): n1, n3, n7, n28, n38, n40, n41, n77, n78 5G (NR SA): n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n66, n77, n78 4G (LTE-FDD): B1, B2, B3, B4, B5, B7, B8, B20, B28, B66 4G (LTE-TDD): B38, B40, B41 WCDMA: B1, B2, B5, B8 5G (NR SA): n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n66, n77, n78 4G (LTE-FDD): B1, B2, B3, B4, B5, B7, B8, B20, B28, B66 4G (LTE-TDD): B38, B40, B41 WCDMA: B1, B2, B5, B8
YZW001L(GL)	Global	5G optional • 5G (NR NSA/SA): n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79 4G (LTE-FDD): B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71 4G (LTE-TDD): B34, B38, B39, B40, B41, B42, B43, B48 WCDMA: B1, B2, B4, B5, B8, B19 4G (LTE-FDD): B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71 4G (LTE-TDD): B34, B38, B39, B40, B41, B42, B43, B48 WCDMA: B1, B2, B4, B5, B8, B19

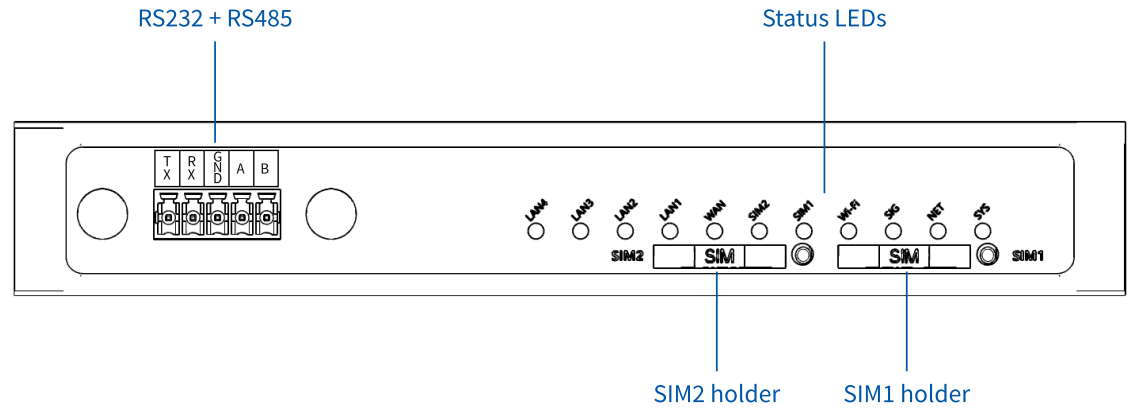
Product	Region	Frequency
YZW001L(Cat.6)	Global, North America (optional), EMEA / APAC / Brazil (optional)	4G module option • 4G (LTE-FDD): B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71 4G (LTE-TDD): B34, B38, B39, B40, B41, B42, B43, B46 (LAA), B48 (CBRS) WCDMA: B1, B2, B3, B4, B5, B6, B8, B19 4G (LTE-TDD): B34, B38, B39, B40, B41, B42, B43, B46 (LAA), B48 (CBRS) WCDMA: B1, B2, B3, B4, B5, B6, B8, B19
YZW001L(Cat.12)	Global	4G module option • 4G (LTE-FDD): B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71 4G (LTE-TDD): B34, B38, B39, B40, B41, B42, B43, B46 (LAA), B48 (CBRS) WCDMA: B1, B2, B3, B4, B5, B6, B8, B19 4G (LTE-TDD): B34, B38, B39, B40, B41, B42, B43, B46 (LAA), B48 (CBRS) WCDMA: B1, B2, B3, B4, B5, B6, B8, B19

Confirm cellular version, bands, GPS and custom storage when ordering; standard storage in this datasheet is 512 MB NAND.

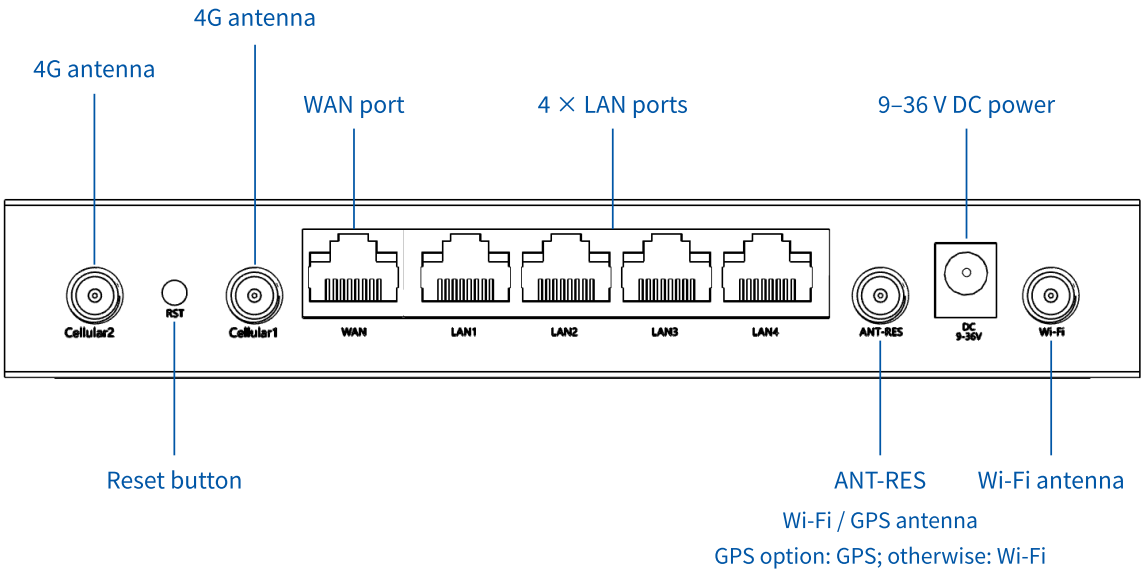
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Hardware Interfaces

GPS is a hardware option; interface functions and antenna configuration follow the order and the table above.



Front Panel



Rear Panel

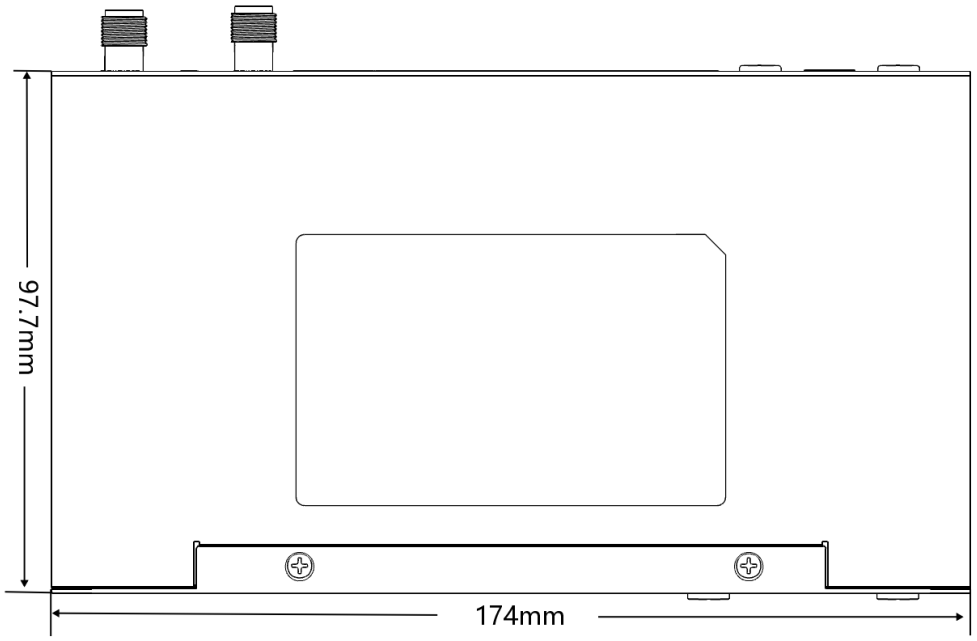
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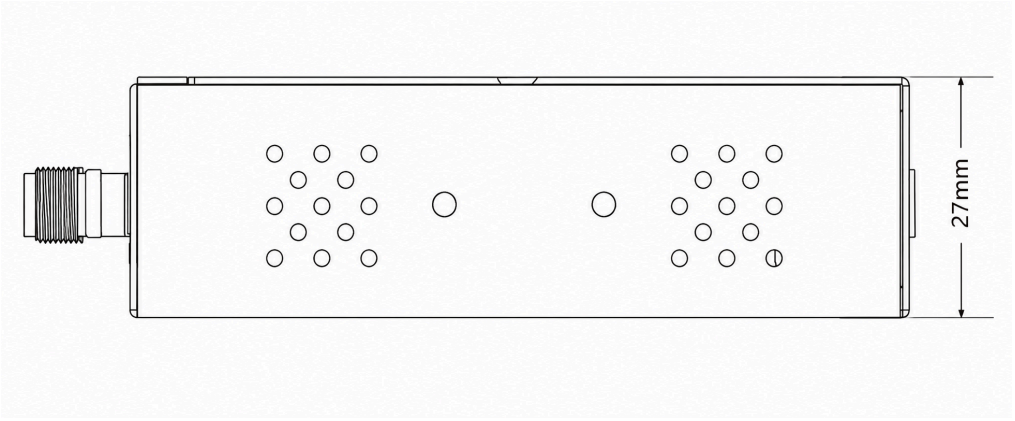
Dimensions & Weight

Main Measurements

Outline (W × H × D)*	174.00 × 97.70 × 27.00 mm
Box	262.00 × 125.00 × 85.00 mm

Dimensions exclude antenna connectors, screws and other protrusions; measurement positions are shown in the drawings.

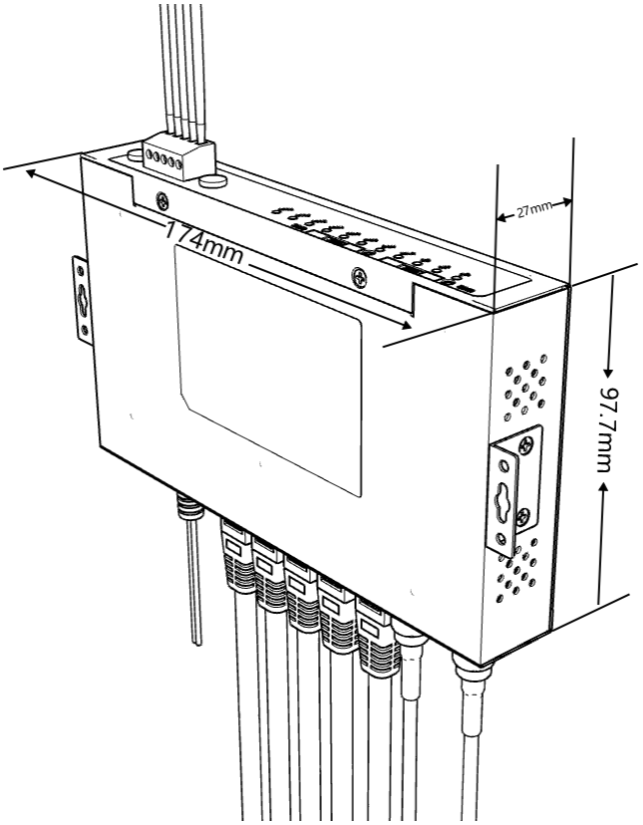




DATASHEET

Mounting Space Requirements

Allow clearance for antennas, cables and mounting ears as illustrated.



4G is standard and 5G is a device hardware option. GPS is optional; with GPS one Wi-Fi antenna remains.