



Z1 5G Industrial Outdoor Gateway



Overview

With powerful data collection, storage, analysis and processing capabilities, Z1 5G Industrial Outdoor Gateway is mainly aimed at the industrial sector and can also be used for indoor and outdoor network coverage, providing customers with a total solution for device networking, edge computing and intelligent operation and maintenance.

Highlights



Excellent WiFi Coverage

Support new generation 802.11ac Wave2 and dual-band 2×2 MU-MIMO
Equipped with IPQ40X9 LTE/NR CPE



High Stability

Fully industrial grade hardware platform with 4 core high performance CPU

Support wired, WLAN, 4G/5G multi-network access



Multiple Mounting Options

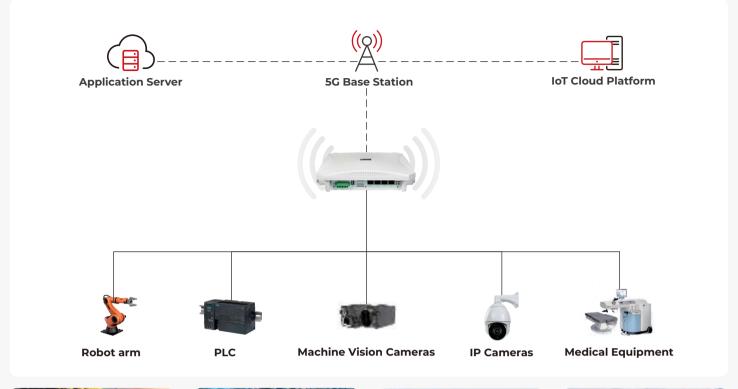
Support ceiling-mounted installation



Industrial Standard Design

Wide temperature and input voltage range, above IP66 protection level

Topology diagram











Smart Manufacturing

Smart Factory

Smart Ports

Smart Healthcare

Features



Enhanced 5G download rate



Dividing VLAN, network isolation



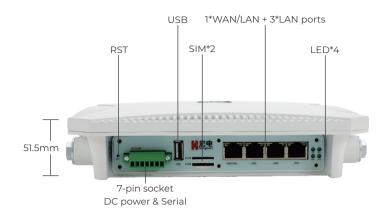
IP66 protection

Support Hongdian Wedora RMS for cloud based management

Specification

Hardware								
CPU	Quad-core ARM Cortex A7, 717MHz							
RAM	512MB	FLASH	32MB+8GB eMMC					
SD Card	Built-in TF card slot	USB	USB2.0					
Cellular Interface								
Modem	1 × 5G NR SA/NSA	Number of Antennas	4					
SIM	2 × Mini SIM (2FF)	Connector	SMA-K					
Wireless Interface								
Standards	802.11b/g/n/ac, AP or station modes	Frequency Bands	2.4 GHz & 5 GHz					
Speed	1167Mbps	Security	WEP, WPA, WPA2					
Encryption	64/128 AES, TKIP	Antennas	4					
Connector	SMA-K							
GNSS Interface								
Number of Antennas	1 (only for GPS version)	Connector	SMA-K with 50 ohms impedance					
Dead Reckoning	Optional							
Peripheral Interface								
Ethernet	3 × LAN 10/100/1000 Mbps + 1 × WAN/LAN 10/100/1000 Mbps, Gigabit Ethernet							
Serial Type	1 × RS-232 + 1 × RS-485 serial port	Socket Form	1 × 7-pin 3.5 mm female socket					
Signal Definition	RX, TX, GND (RS-232) , A+, B-, GND (RS-485)	SD Card	Built-in TF Card Slot					
Baudrate	RS-232 (300-115200bps), RS-485 (300-115200bps)							
USB	USB2.0							
Software								
Auto Fail-over	Between: Cellular and WAN, Cellular and Wi-Fi (station mode), WAN and Wi-Fi (station mode)							
Network Protocols	PPP, PPPoE, TCP, UDP, IPv4, IPv6, SSL, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, Telnet, SSH, DDNS, etc.							
Routing	Static Routing, Policy routing, RIP, OSPF and BGP, etc							
Firewall	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List							
VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/DMVPN							
Remote Management	HTTP, Telnet, SSH, SMS, SNMP V1/V2/V3, SNMP TRAP, Hongdian Wedora Cloud Platform							
Serial Ports Function	Transparent, Modbus RTU, etc							
Power Supply and Cor	nsumption							
Connector	2 pin socket	Voltage Input	+9V~+24V DC					
Power Consumption	Idle: 450mA@12V DC, Data transceiving: 2.2A@12V DC							
Others								
Reset Button	Yes	Hardware Watchdog	Yes					
LED Indicators	4 indicators for WiFi, SIG, NET, SYS							
Physical Characteristics								
Ingress Protection	IP66	Housing & Weight	Metal, 1860g					
Dimension	216×216×51.5(mm)	Installations	Desktop, wall mounting and DIN rail mounting					
Operating Temperature	-30 ~ +70 °C	Storage Temperature	Storage Temperature -40 ~ +85 °C					
Relative Humidity	5 ~ 95%							

Appearance





Ordering info

Model	Bands	5G modem	WLAN	RJ45	RS232	RS485	Region
Z1-N005- 4W-4R-CS	NSA/SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/ n28/n38/n40/n41/n48*/n66/n71/ n77/n78/n79 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12(B17)/ B13/B14/B18/B19/B20/B25/B26/ B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/ B48 LTE DL 4×4 MIMO: B1/B2/B3/B4/B7/B25/B30/B32/ B34/B38/39/B40/B41/B42/B43/ B48/B66 LAA: B46(only support 2×2 MIMO) WCDMA: B1/B2/B3/B4/B5/B6/B8/B19	1*modem	4*4G Antenna	4*RJ45 Cable	1*RS232	1*RS485	Global

Packing list





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