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# **Z2** 5G Industrial Gateway

### Overview

Z2 Industrial Cellular Gateway is a new generation of 5G gateway with edge computing capability. Its built-in 4-core high-performance processor supports floating point computing and built-in embedded memory, external TF card interface support local storage and data processing. The open software architecture design provides fast and flexible customization, rich and diverse interfaces, local real-time data analysis and intelligent processing with strong temperature, electromagnetic resistant and is able to adapt to different industry scenarios.

# Highlights



#### **High Performance**

With powerful data processing and computing capabilities Supports local data storage and analysis decision

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### **High Stability**

With wide temperature and resistance to strong electromagnetic interference

# Efficient Operation and Maintenance

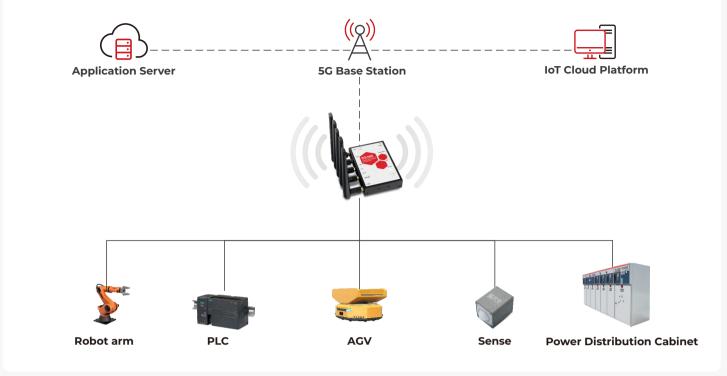
Support Hongdian Wedora platform



### **Industrial Standard Design**

Wide temperature and input voltage range, IP40 protection level

# Topology diagram





Smart Manufacturing



Smart Factory





Smart Water

Smart Energy

### Features



# Data acquisition and transmission capability

Rich peripheral interfaces, compatible with mainstream industrial protocols



#### Secure networking

Support VPDN, APN private network input, IPV6/IPV4 dual stack

Support IPSec, L2TP, GRE, ICMP detection heartbeat packet detection function, support online detection recovery



### 5G ultra-high-speed network

Support for frequency locking, cell locking, support for 5G/4G, WiFi wired multi-network simultaneous access, multi-network backup switching



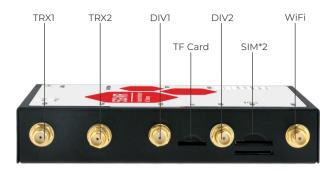
### VLAN

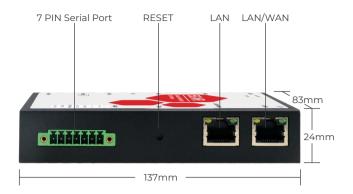
Dividing VLAN, network isolation Support bridging, port forwarding and other functions Support VXLAN function

# Specification

Hardware									
СРО	Quad-core ARM Cortex A7, 717MHz	RAM	512MB						
FLASH	32MB	SD Card	TF Card Slot						
Cellular Interface									
Modem	1 × 5G NR SA/NSA								
Number of Antennas	4 (MAIN + AUX)	Module Integration	M.2						
SIM	2 × Mini SIM (2FF)	Connector	SMA-K						
Ethernet Interface									
Number of Ports	2 × 10/100/1000 Mbps, Gigabit Ethernet	Configuration	$2 \times LAN / 1 \times LAN + 1 \times WAN$						
Wireless Interface									
Standards	802.11b/g/n, AP or station modes	Frequency Bands	2.4 GHz						
Speed	150Mbps	Security	WPA, WPA2						
Encryption	64/128 AES, TKIP	Antennas	1 (only for WiFi version)						
Connector	SMA-K								
GNSS Interface									
Number of Antennas	1 (only for GPS version)	Connector	SMA-K with 50 ohms impedance						
Seiral Interface									
Туре	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)	ESD	15KV						
Baudrate RS-232 (300-115200bps), RS-485 (300-115200bps)									
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, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH, DDNS, etc.								
Routing	Static Routing, Policy routing, RIP, OSPF and B	GP, 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	a Cloud Platform						
Serial Ports Function	<b>n</b> Transparent, Modbus RTU, etc								
Power Supply and Co	nsumption								
Connector	2 pin socket	Voltage Input	+9V~+24V DC						
Power Consumption	Idle: 350mA@12V DC, Data transceiving: 1.3A@12V DC								
Others									
Reset Button	Yes	Hardware Watchdog	Yes						
LED Indicators	4 indicators for WiFi, SIG, NET, SYS								
Physical Characteristi	ics								
Ingress Protection	IP40	Housing & Weight	Metal, 290g						
Dimension	137.0×83.0×24.0(mm)	Installations	Desktop, wall mounting and DIN rail mounting						
Operating Temperature	-30 ~ +70 °C	Storage Temperature	-40 ~ +85 °C						
Relative Humidity	5 ~ 95% RH	Certifications	CE*, FCC* (*In progress)						

## Appearance





# Ordering info

Model	Bands	5G modem	WLAN	RJ45	RS232	RS485	Region
Z2-N005- W-2R-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	1*4G Antenna	2*RJ45 Cable	1*RS232	1*RS485	Clobal

## Packing list







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