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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

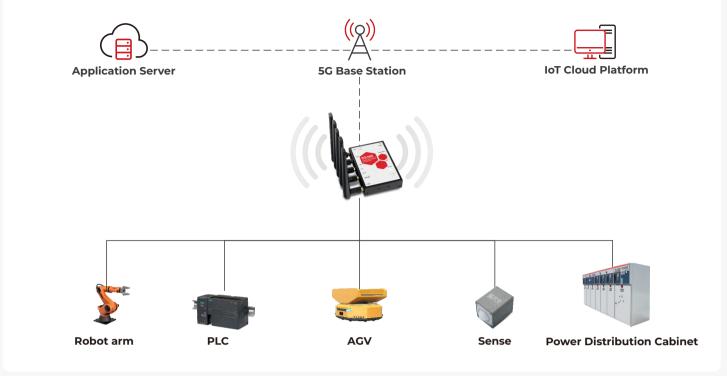
Support Hongdian Wedora platform



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



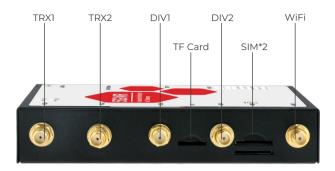
VLAN

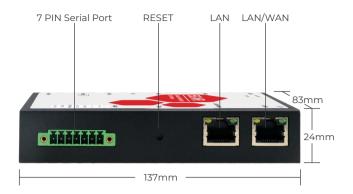
Dividing VLAN, network isolation Support bridging, port forwarding and other functions Support VXLAN function

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	n 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







HONGDIAN CORPORATION

T +86-755-88864288-2 **F** +86-755-83404677 **E** sales@hongdian.com **W** www.hongdian.com

A Tower A, Hongdian Building, 100 Huabao Road, Pinghu, Longgang District, Shenzhen, China