Hongdian
Connecting things

Z1
5G NR Industry Intelligent Gateway

OS
HongdianOS

5G
5G-LTE

Strong WiFi

Overview

Hongdian Z1 5G NR Industrial Intelligent Gateway is a kind of gateway with edge computing and secondary development capabilities. Open software architecture design, providing fast and flexible customization; rich and diversified interfaces, local real-time data analysis and intelligent processing; industrial-grade standard design, wide temperature, dust proof, water proof and oil proof, anti-strong electromagnetic interference, adapt to different industry scenes.

Z1 5G NR industrial intelligent gateway is mainly for the industrial field, with powerful data acquisition, storage, analysis and processing capabilities, providing customers with integrated solutions for equipment networking, edge computing and intelligent operation and maintenance industrial Internet.
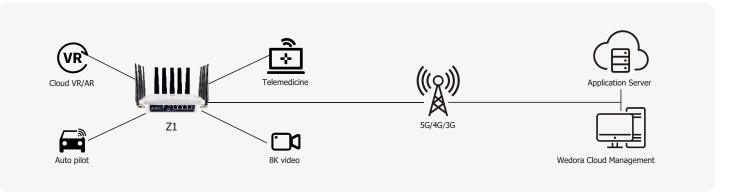
Features

- Qualcomm high performance chip
- 4*RJ45 Gigabit Network Port and RS232&RS485
- 8GB Storage, C and Python programmable
- 5G full-band design, 8 antennas
- Compatible backward with 4G
- 2.4G and 5.8G dual-band WIFI
- Compatible with various protocols, IP65
- Multiple installation methods
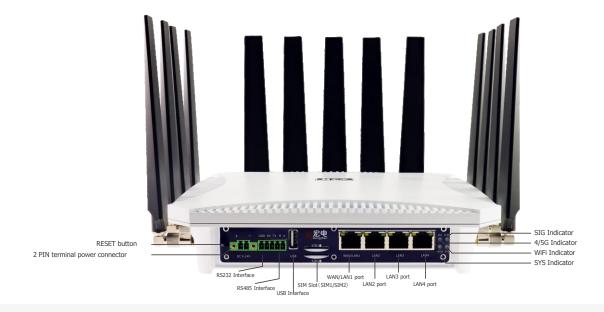- Rich application scenarios

Diagram Scheme

Cloud VR/AR
Telemedicine
Z1
Auto pilot
8K video
5G/4G/3G
Application Server
Wedora Cloud Management

Specification name		Specifications	Remarks
Product name		Z1	5G NR industrial intelligent gateway
Network Type		4G/5G	
Frequency		5G NR：n1/n2/n3/n5/n7/n8/n20/n28/n41/n66/n71/n77/n78/n79	
		LTE：B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/B12(17)/B13/B14/B20/B25/B26/B28/B29/B30/B38/B39/B40/B41/B42/B43/B46/B48/B71	
CPU		Qualcomm IPQ4029 high performance processor	
RAM		512MB	
Built-in storage		8GB EMMC	
Module		Quectel 5G module（Qualcomm X55 based）	
Interface		1*Reset button	
		1*WAN port（10/100/1000Mbps adaptive）	
		3*LAN ports（10/100/1000Mbps adaptive）	
		1*USB2.0	
		1*RS232,1*RS485	
		2*SIM slot（Dual module Dual SIM）	
		1*TF slot（Built in）	
		1*2pin terminal power connector	
		8*4G/5G antenna interface,4*WiFi antenna interface,1*GPS antenna interface	
Power supply	Working Voltage	+9V～+24V DC	
Power consumption	Working power consumption	About 650mA@12V DC	
Other	Size：Length * width * height	213*213*51.5(mm)	
	Operating temperature	-30～+75ºC	
	Storage temperature	-40～+85ºC	
	Relative humidity	≤95%（No condensation）	

Note: The amount of communication power consumption is affected by the network signal strength and the module network mode.

Dimensions

RESET button
2 PIN terminal power connector
RS232 Interface
RS485 Interface
USB Interface
SIM Slot（SIM1/SIM2）
WAN/LAN1 port
LAN2 port
LAN3 port
LAN4 port
SIG Indicator
4/5G Indicator
WiFi Indicator
SYS Indicator