



Z15G Industrial Outdoor Gateway



Overview

With powerful data collection, storage, analysis and processing capabilities, Hongdian Z15G intelligent IoT 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

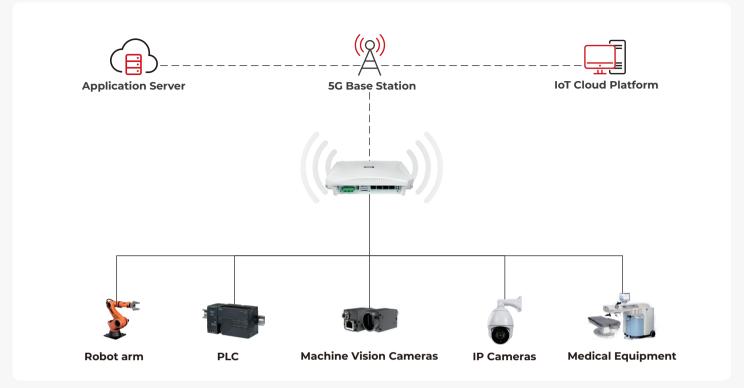
Support ceiling-mounted installation



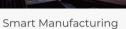
Industrial Standard Design

Wide temperature and input voltage range, above IP66 protection level

Topology diagram









Smart Factory



Smart Ports



Smart Healthcare

Features



Rich interfaces

RJ45, RS485, RS232 and other industrial field interfaces



/LAN

Dividing VLAN, network isolation



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



VXLAN

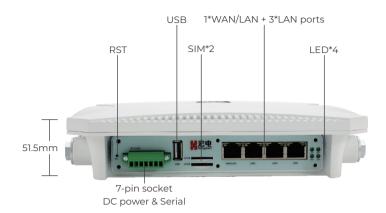
VXLAN, LAN networking

Support bridging, port forwarding and other functions Support multi-DNN

Specification

Hardware	Ouad care ADM Cartoy AT TITM IT								
CPU	Quad-core ARM Cortex A7, 717MHz	FLACII	ZOMB LOCE AMMC						
RAM	512MB	FLASH	32MB+8GB eMMC						
SD Card	Built-in TF card slot	USB USB2.0							
Cellular Interface									
Modem	1×LTE or 1×5G NR SA/NSA or 1×LTE + 1×5G NR SA/NSA								
Number of Antennas	4 (MAIN + AUX)	Module Integration	Mini PCIe or M.2						
SIM	2 × Mini SIM (2FF)	Connector SMA-K							
Ethernet Interface									
Number of Ports	4 × 10/100/1000 Mbps, Gigabit Ethernet	Configuration	4 × LAN / 3 × LAN + 1 × WAN						
Wireless Interface									
Standards	802.11b/g/n/ac, AP or station modes	Frequency Bands	2.4 GHz & 5 GHz						
Speed	1167Mbps	Security	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	Dead Reckoning Optional								
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 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 Consumption									
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	-40 ~ +85 °C						
Relative Humidity	5 ~ 95% RH	Certifications	CE*, FCC* (*In progress)						
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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





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