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H8891

5G Outdoor Router

Overview

H8891 is a durable 5G outdoor router built for reliable connectivity in demanding environments. Supports advanced indoor and outdoor network coverage with 5G, WiFi6 and IP66-rated housing. Supports dual SIM with automatic switching, and eSIM optional, provide exceptional network flexibility and redundancy.Gigabit Ethernet ports with PoE-in and PoE-out simplify setup by combining power and data in a single cable. Besides, it can managed by Hoditek Sandora platform with SD-WAN networking, remote access anytime anywhere, making it perfect for outdoor connectivity solutions.

Highlights

Excellent WiFi Coverage

Support 802.11ax and dual-band 2×2 MU-MIMO

Perfect PoE Port

Support PoE-in and PoE-out (802.3af/at)

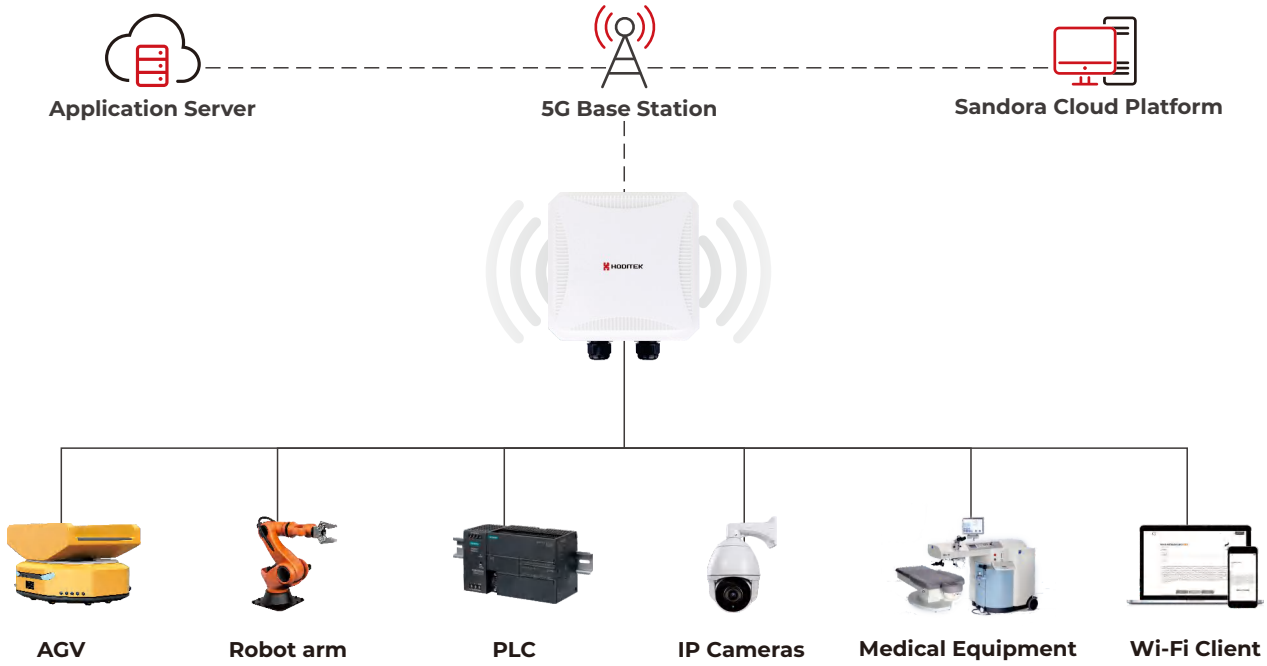
Industrial Standard Design

Wide temperature and input voltage range, above IP66 protection level

Cloud Management

Managed by Hoditek Sandora Platform with SD-WAN networking, remote access anytime anywhere

Topology diagram



Smart Manufacturing

Smart Factory

Smart Healthcare

SOHO (Small Office and Home Office)

Appearance

Specification

Hardware			
CPU	Dual-core, 1.35 GHz, ARM Cortex A53		
RAM	512MB	**FLASH**	32MB
Cellular Interface			
Modem	1 × 5G NR SA/NSA	**Number of Antennas**	4
SIM	2 × Mini SIM (2FF) (eSIM Optional)	**Connector**	Internal
Ethernet Interface			
Number of ports	4 × 10/100/1000 Mbps, Gigabit Ethernet		
Configuration	3 × LAN + 1 × WAN/LAN	**PoE output**	POE+(802.3af) 15W output×2, input×1
Wireless Interface			
Standards	802.11b/g/n/ac/ax, AP or station mode		
Speed	2402Mbps on 5GHz, 576Mbps on 2.4GHz	**Frequency Bands**	2.4 GHz & 5 GHz
Encryption	64/128 AES, TKIP	**Security**	WEP, WPA, WPA2
Connector	Internal		
GNSS Interface			
Number of Antennas	1 (only for GPS version)	**Connector**	Internal
Seiral interface			
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.		
Network	APN, VLAN, VXLAN, QoS		
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/VXLAN/Wireguard		
Industrial Protocols	Modbus, OPC UA, BACNet/IP, IEC101/104, IEC61850, etc		
Remote Management	HTTP, Telnet, SSH, SMS, SNMP V1/V2/V3, SNMP TRAP, Hoditek Sandora Platform, SD-LAN		
Serial Ports Function	Transparent, Modbus RTU, etc		
Power Supply and Consumption			
Power Connector	2 pin socket	**Voltage Input**	+9V~+48V DC
Power Consumption	Idle: 325mA@12V DC, Data transceiving: 708mA@12V DC		
Others			
Reset Button	Yes	**Hardware Watchdog**	Yes
LED Indicators	4 indicators for Wi-Fi, SIG, NET, SYS		
Physical Characteristics			
Ingress Protection	IP66	**Housing & Weight**	Metal, 1700g
Installations	Desktop, pole mounting, wall mounting and surface mounting		
Operating Temperature	-40 ~ +75 °C	**Storage Temperature**	-40 ~ +85 °C
Dimension	221×221×82(mm)	**Relative Humidity**	5 ~ 95%

Ordering info

Part No.	Modem	Band	Region*	RS-485	Wi-Fi	GNSS	Ethernet
H8891-NRGL-PE-2WG	Single 5G NR	**NSA/SA:** n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/70/71/75/76/77/78/79 **LTE-FDD:** B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/71 **LTE-TDD:** B34/38/39/40/41/42/43/48 **LAA:** B45 **WCDMA:** B1/2/4/5/8/19	GL	2	802.11ax 2×2 MU-MIMO	•	4
H8891-NREU-PE-2WG	Single 5G NR	**NSA/SA:** n1/3/5/7/8/20/28/38/40/41/71/75/76/77/78 **LTE-FDD:** B1/3/5/7/8/20/28/32/71 **LTE-TDD:** B38/40/41/42/43 **WCDMA:** B1/5/8	EU	2	802.11ax 2×2 MU-MIMO	•	4
H8891-NREA-PE-2WG	Single 5G NR	**1076-00400 G200U-CNV1CA** **R16, NSA:** n78/79, **SA:** n1/3/5/8/28/41/77/78/79 **LTE FDD:** B1/3/5/8, **LTE TDD:** B34/38/39/40/41, **WCDMA:**B1/8 **1076-00360 RG200U-CNV1** **R15, NSA:** n78/79, **SA:** n1/3/5/8/28/41/77/78/79 **LTE FDD:** B1/3/5/8, **LTE TDD:** B34/38/39/40/41, **WCDMA:**B1/8 **1076-10100 RG200U-CNV3GA** **R15, NSA:** n78, **SA:** n1/3/5/8/28/41/77/78 **LTE FDD:** B1/3/5/8, **LTE TDD:** B34/38/39/40/41, **WCDMA:**B1/8	EA	2	802.11ax 2×2 MU-MIMO	•	4

* GL-Global, EU-EMEA (Europe, the Middle East, Africa)/APAC (Non-CN/JP)/Brazil, EA-EMEA (Europe, the Middle East, Africa)/APAC

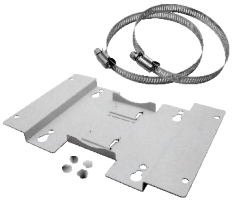
Packing list

Packing Box

H8891 5G Outdoor Router

Power Adaptor (Optional)

RJ45 Cable



Installation Toolkit

Waterproof Components

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