HODITEK

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H8870

5G Wi-Fi Router



Overview

H8870 5G Wi-Fi Router provides global 5G Sub-6GHz SA/NSA network access for mission-critical industrial IoT applications, which often require a mass data throughput and lower network latency. It features dual-band Wi-Fi 6 technology with multi-user MIMO, ensuring ultra-high cellular speeds of up to 3.4 Gbps. This 5G router is also equipped with dual SIM with auto-failover, five Gigabit Ethernet ports, including 2 LAN ports that support PSE.It is dedicated for massive data such as high-definition video stream backhaul and remote equipment maintenance and it is suitable for smart factories, medical equipment, robot vision, video surveillance, smart energy and other industrial fields.

Highlights

Global 5G Sub-6GHz high-speed network

Provide seamless wireless network connectivity with high bandwidth, low latency and high reliability

WLAN Network

Wi-Fi 6 with dual-band multi-user MIMO wireless capabilities

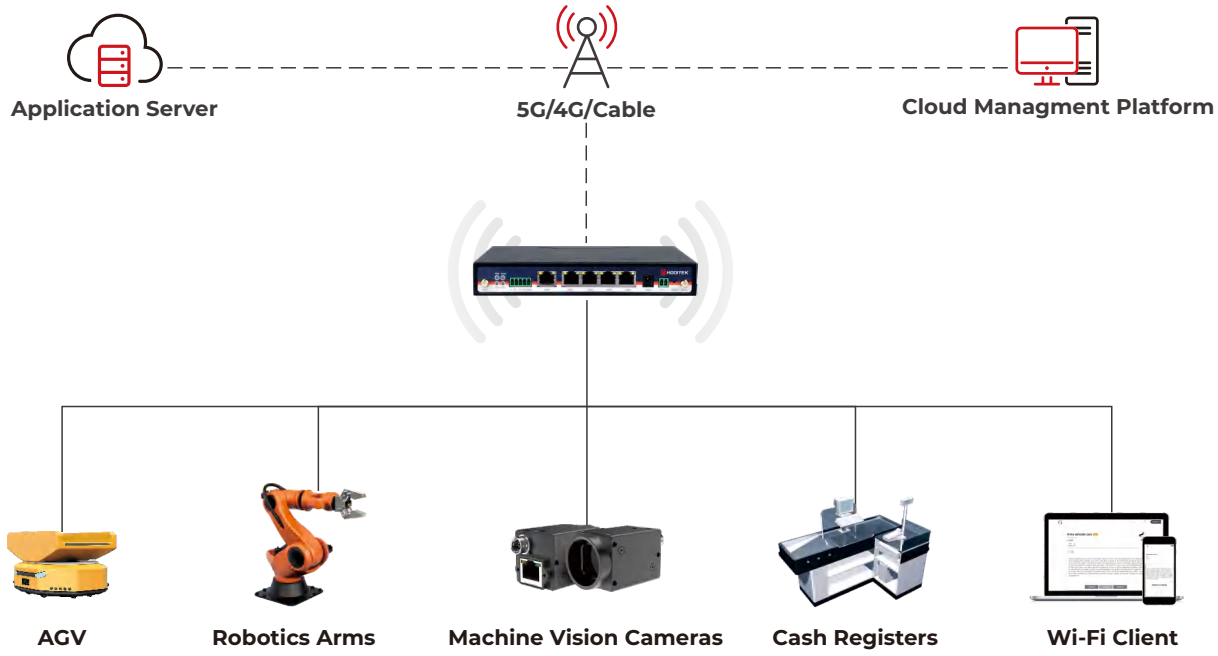
Enhancing Data Security

Data Protection with IPsec/OpenVPN/GRE/L2TP/ PPTP/Wireguard

Cloud Management

Managed by Hoditek Cloud Server with SD-WAN networking, remote access anytime anywhere

Topology diagram





Smart Factory



Video Surveillance



Machine Vision



Retail Stores

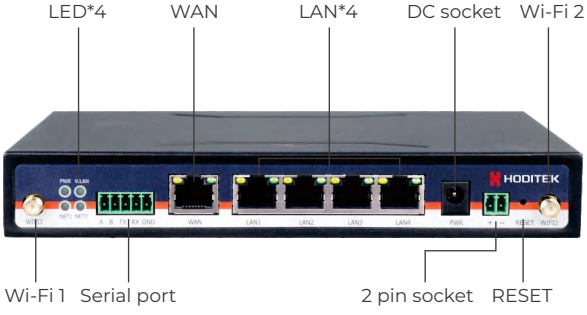
Specification

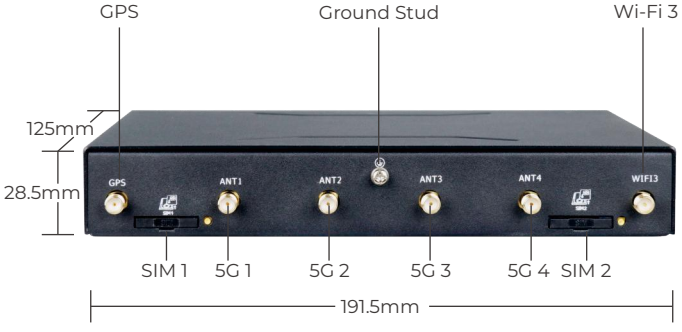
Hardware			
CPU	Dual-core, 1.35 GHz, ARM Cortex A53		
RAM	512MB	**FLASH**	32MB
Cellular Interface			
Modem	1 × 5G NR SA/NSA or 2 × LTE-A or 1 × LTE-A & 1 × 5G NR SA/NSA		
SIM	2 × Mini SIM (2FF) (eSIM optional)	**Connector**	SMA-K
Number of Antennas	4		
Ethernet Interface			
Number of Ports	4 × LAN 10/100/1000 Mbps + 1 x WAN/LAN 2.5G	**Configuration**	4 × LAN + 1 × WAN
PoE Output	POE+ 30W, output × 2, input × 1		
Wireless Interface			
Standards	802.11b/g/n/ac/ax, AP or station mode	**Frequency Bands**	2.4 GHz & 5 GHz
Speed	2402Mbps on 5.8GHz, 576Mbps on 2.4GHz	**Security**	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP	**Antennas**	3
Connector	RP SMA-K		

Specification

GNSS Interface			
Number of Antennas	1 (only for GPS version)	**Connector**	SMA-K with 50 ohms impedance
Seiral Interface			
Type	1 × RS-232 + 1 × RS-485 serial port	**Socket Form**	1 × 5-pin 3.5 mm female socket
Signal Definition	RX, TX, GND, A+, B-	**Baudrate**	RS-232 (300-115200bps), RS-485 (300-115200bps)
Software			
Auto Fail-over	Between: 2 Cellulars, 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.		
Network	APN, VPDN, VLAN, QoS		
Routing	Static Routing, Policy routing, RIP, and OSPF, etc		
Firewall	NAT, PAT, DMZ, Port Forword IP/Domain/MAC Filter, Access Control List		
Attack Prevention	DDOS prevention, Anti port scanning		
VPN	PPTP/L2TP/GRE/IPSec/OpenVPN/WireGuard		
Ipsec Encryption	DES, 3DES, AES128, AES192, AES256		
OpenVPN Encryption	BF-CBC, DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC, SEED-CBC		
Remote Management	HTTP, Telnet, SSH, SMS, SNMP V1/V2/V3, SNMP TRAP, Hoditek Cloud Platform, SD-LAN, SD-WAN		
Serial Ports Function	Transparent, Modbus RTU, etc		
Power Supply and Consumption			
Connector	DC socket or 2 pin socket	**Voltage Input**	+9V~+57V DC
Others			
Reset Button	Yes	**Hardware Watchdog**	Yes
LED Indicators	4 indicators for PWR, WLAN, NET1, NET2		
Physical Characteristics			
Ingress Protection	IP30	**Housing & Weight**	Metal, 980g
Dimension	191.5×125.0×28.5(mm)	**Installations**	Desktop, wall mounting, 35 mm DIN rail mounting
Operating Temperature	-30 ~ +70 °C	**Storage Temperature**	-40 ~ +85 °C
Relative Humidity	≤ 95% (no condensing)		
EMC			
ESD	EN61000-4-2, level3	**RS**	EN 61000-4-3, level3
EFT	EN 61000-4-4, level3	**Surge Protection**	EN 61000-4-5, level2
CS	EN 61000-4-6, level3		

Appearance





Ordering info

Part No.	Modem	Band	Region*	RS-232	RS-485	GNSS	Wi-Fi	Ethernet
H8870-CS-3W	Single 5G NR	–	–	1	1	–	802.11ax 2×2 MIMO	5
H8870-NREU-3W	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	1	1	–	802.11ax 2×2 MIMO	5
H8870-NRGL-3W	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:** B46 **WCDMA:** B1/2/4/5/8/19	GL	1	1	–	802.11ax 2×2 MIMO	5
H8870-NREU-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	1	1	•	802.11ax 2×2 MIMO	5
H8870-NRGL-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:** B46 **WCDMA:** B1/2/4/5/8/19	GL	1	1	•	802.11ax 2×2 MIMO	5
H8870-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	1	1	•	802.11ax 2×2 MIMO	5
H8870-NREA-PE-2WG	Single 5G NR	**NSA:** n1/3/5/7/8/20/26/28/38/40/41/71/77/78/79 **SA:** n1/3/5/7/8/20/26/28/38/40/41/71/75/76/77/78/79 **LTE FDD:** B1/3/5/7/8/18/19/20/26/28/32/71 **LTE TDD:** B38/40/41/42/43 **WCDMA:** B1/5/8	EA	1	1	•	802.11ax 2×2 MIMO	5
H8870-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:** B46 **WCDMA:** B1/2/4/5/8/19	GL	1	1	•	802.11ax 2×2 MIMO	5
H8870-2NREU-PE-2WG	Dual 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	1	1	•	802.11ax 2×2 MIMO	5
H8870-2NREA-PE-2WG	Dual 5G NR	**NSA:** n1/3/5/7/8/20/26/28/38/40/41/71/77/78/79 **SA:** n1/3/5/7/8/20/26/28/38/40/41/71/75/76/77/78/79 **LTE FDD:** B1/3/5/7/8/18/19/20/26/28/32/71 **LTE TDD:** B38/40/41/42/43 **WCDMA:** B1/5/8	EA	1	1	•	802.11ax 2×2 MIMO	5

* 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



H8870 5G Wi-Fi Router



Power adaptor (USA, FCC, UL)

* Other types available



4×5G Antenna



Wi-Fi Antenna



Power Adaptor (EU Type)

* Other types available



GPS Antenna

* Only GPS Version



RJ45 Cable



Installation Kit

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