NR370i

Wi-Fi 7 Router with 5G NR



Introduction

As a wireless router, NR370i adopts the latest generation WiFi7 technology and is compatible with IEEE 802.11a/b/g/n/ac/ax/be protocol. The dual-band WiFi access rate is up to 6500Mbps typically(can be customized up to 9335Mbps or 12218Mbps), suitable for various wireless access scenarios with high density and high capacity requirements. The product adopts the external antenna design, which can be used with high gain external antennas to provide stronger signals. The product provides a 10G uplink SFP+ port and 4 2.5G Ethernet LAN ports, and all 4 LAN ports support PoE(802.3af/at) output, it can provide power for wireless APs, network cameras and other network devices that support PoE, providing the greatest convenience for networking.

The product also supports 5G NR function. It is equipped by default with the all frequency band 5G Sub-6GHz M.2 module designed for IoT/eMBB applications. It adopts 3GPP Release 16 technology and is based on Qualcomm X62 platform, automatically adapts to 5G NR NSA and SA, backward compatible with 4G/3G, and can realize the mutual backup between wired broadband and cellular wireless broadband.

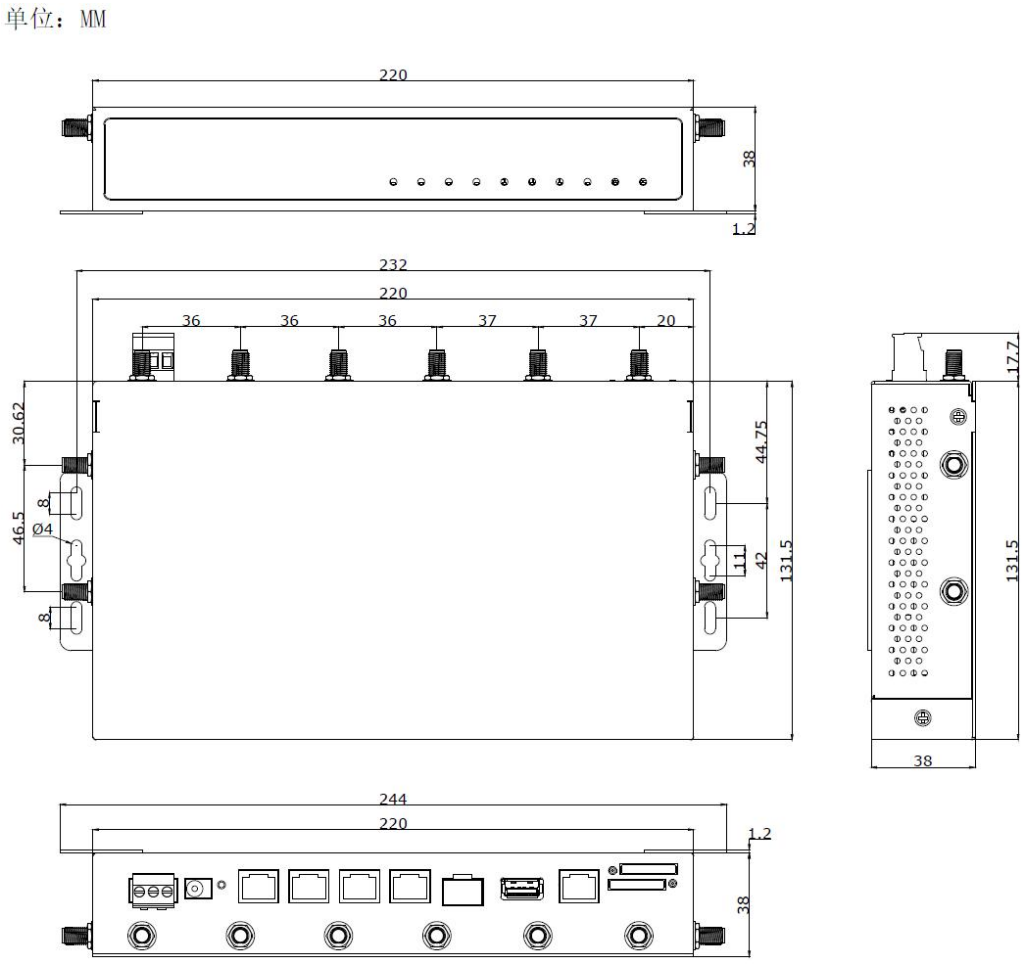
The excellent performance and stability not only come from the latest generation of Qualcomm wireless core, but also rely on the software and hardware design of our professional R&D team. The product can be widely used in corporate offices, smart education, smart energy, smart cities, telemedicine and other industries.

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Product Features

- Latest generation Wi-Fi 7(802.11be), compatible with IEEE 802.11a/b/g/n/ac/ax/be;
- Supporting OFDMA and MU-MIMO technology, no queuing for concurrent network use
- 512+ concurrent wireless users;
- Supporting router/AP/repeater modes;
- 1* USB2.0 interface
- SA/NSA dual-mode 5G NR, wired broadband and cellular broadband are mutual backups;
- 10G SFP+ uplink port
- 2.5G LAN ports and supporting 802.3af/at PoE output; （Note：LAN1 supports switching to WAN）
- Customization options(WiFi rate, Frequency Band, Flash/RAM, USB/RS485 interfaces)

Dimensions



Specifications

System	Chipset	IPQ5322(Quad-core @A53 at 1.5 GHz)+QCA8386+QCN6224(QCN9274 customizable)
	RAM	1GB(512MB to 1GB customizable) DDR4
	FLASH	256MB(up to 1GB customizable) SPI NAND, eMMC compatible 4MB(up to 32MB customizable) SPI NOR
WiFi	Standard	IEEE 802.11a/b/g/n/ac/ax/be
	Streams	MU-MIMO: 2×2+4×4(tri-band 2x2+2x2+2x2 customizable)
	Frequency Bands	2.4GHz-2.483GHz 5.15-5.25GHz, 5.25GHz-5.35GHz, 5.725GHz-5.850GHz (4.9~7.125GHz customizable)
	Rate	2.4GHz: 688Mbps, 5GHz: 5765Mbps
	Recommended clients	256(2.4G)+256(5G)
	Modulation	802.11b: DSSS：DBPSK(1Mbps),DQPSK(2Mbps),CCK(5.5/11Mbps) 802.11a/g: FDM:BPSK(6/9Mbps), QPSK(12/18Mbps), 16QAM(24/36Mbps), 64QAM(48/54Mbps) 802.11n: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM MCS: MCS0~MCS15 802.11ac: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM,256QAM MCS: MCS0~MCS9 802.11ax: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM MCS: MCS0~MCS11 802.11be: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM, 4096QAM MCS: MCS0~MCS13
	Bandwidth	320/160/80/40/20 MHz
	Tx power	24dBm
	Antenna	6×External high gain antennas
5G NR	Frequency Bands	5G SA: n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n75/n76/n77/n78/n79 5G NSA: n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n75/n76/n77/n78/n79 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48 LAA: B46 WCDMA: BB1/B2/B4/B5/B8/B19
	5G rate	5G SA:DL 2.4 Gbps; UL 900 Mbps 5G NSA：DL 3.3 Gbps; UL 550 Mbps
	SIM slot	2×SIM slot
	Antenna	4×External high gain antennas
Wired	Network interface	1×10G SFP WAN, 4×2.5Gbps LAN(PoE out) ； （Note：LAN1 supports switching to WAN）
	PoE	LAN ports support 802.3af/at PoE out
Powering	Method	1. 12~54V DC;

		2. 3 Pin Phoenix connector(5.08mm) Note: To ensure PoE function 48V input must be guaranteed
	Power consumption	24W(not including PoE output)
Physical	Dimension	220*130*38mm
	Weight	1.3kg
	Operating Temperature	-10℃ ~ +50℃
	Storage Temperature	-40℃ ~ +85℃
	Operating humidity	5%~90%(non-condensation)
	Mounting	Desktop
Other interfaces	Indicators	Power, Eth, 5G, WiFi, USB
	Button/Jack	Reset/WPS in one, RJ45 Console, USB2.0

Catalog

Features / Model	NR370i（5G NR+Wi-Fi 7）	NR370i-M（5G NR+Wi-Fi 7）	NR370i-H（5G NR+Wi-Fi 7）
Outline			
Description	WiFi 7 be6500 Dual-band Wireless Router	WiFi 7 be9300 Tri-band Wireless Router	WiFi 7 be12000 Dual-band Wireless Router
Chipset	IPQ5322+QCA8386+QCN6224	IPQ5322+QCA8386+QCN9274	IPQ5322+QCA8386+QCN9274
Wi-Fi standard	802.11be	802.11be	802.11be
Wi-Fi Frequency	2.4GHz+5GHz	2.4GHz+5GHz+6GHz	2.4GHz+4.9~7GHz
Bandwidth	160/80/40/20 MHz	320/160/80/40/20 MHz	320/160/80/40/20 MHz
Streams	2*2+4*4 MU-MiMo	2*2+2*2+2*2 MU-MiMo	2*2+4*4 MU-MiMo
Wi-Fi rate	688+5765Mbps	688+2882.4+5765Mbps	688+11529.6Mbps
Wi-Fi antenna	6 x External	6 x External	6 x External
5G Platform	Qualcomm X62	Qualcomm X62	Qualcomm X62
5G NR antenna	4 x External	4 x External	4 x External
Wired	1*10G SFP + 4*2.5G Eth(PoE out)	1*10G SFP + 4*2.5G Eth(PoE out)	1*10G SFP + 4*2.5G Eth(PoE out)
Operating Temperature	-0℃ ~40℃	-0℃ ~40℃	-0℃ ~40℃
Operating humidity	5%~90% RH non-condensation	5%~90% RH non-condensation	5%~90% RH non-condensation
Dimensions	220*130*38mm	220*130*38mm	220*130*38mm
Weight	1.3kg	1.3kg	1.3kg
Mounting	Desktop	Desktop	Desktop