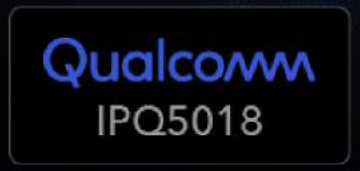




5G

5G SA/NSA
AX3000
Wi-Fi 6 CPE
Model: P5

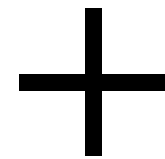


Qualcomm

IPQ5018 SoC

IPQ5018+QCN6102

1 GHz Dual-core ARM Cortex-A53 CPU
High Capacity 802.11ax SoC



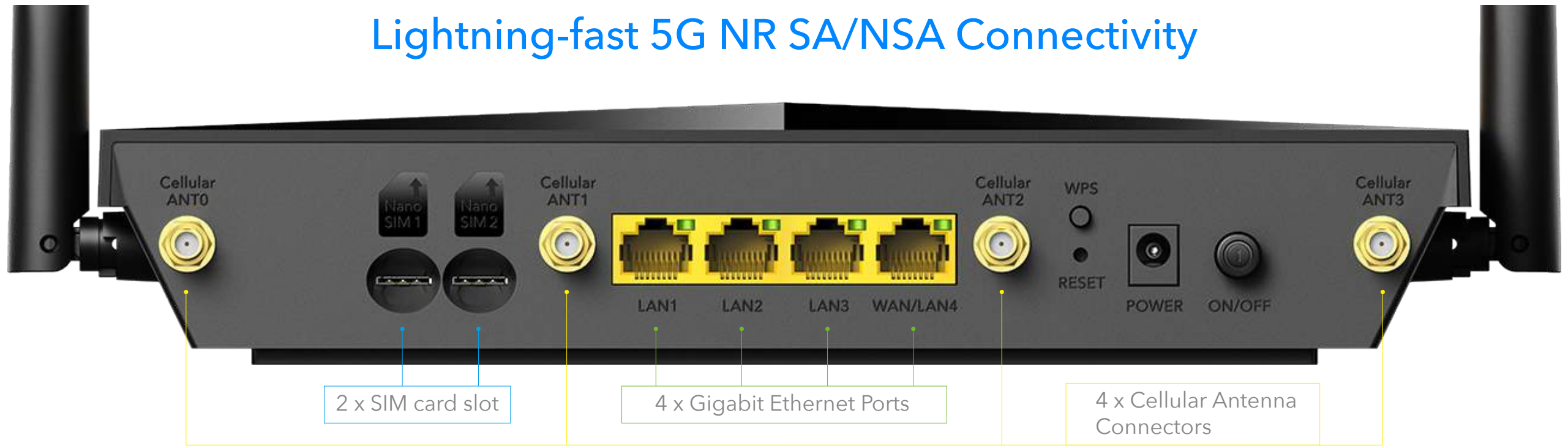
Snapdragon X62 5G Modem

Quectel RM520N

2nd generation 5G modem with integrated multi-mode support, designed to deliver breakthrough wireless performance and accelerate global 5G rollout.



Lightning-fast 5G NR SA/NSA Connectivity



5G SA/NSA
Sub-6GHz

WiFi 6
AX3000

WAN Internet
Cellular Backup

Nano SIM 1, Nano SIM 2, WAN/LAN, SIM

WHOLE HOME MESH

VPN
Built-in VPN Server and Client

Future-Proof Remote Management with
TR069 / TR098
TR111 / TR181



Lightning-fast 5G Connectivity

Cudy 5G Router employs 3GPP Rel. 16 technology, it supports both 5G NSA and SA modes, covers all the main stream carriers worldwide.



Wi-Fi6 - The most powerful Wi-Fi ever

4X
more capacity

150%
increase in data throughput

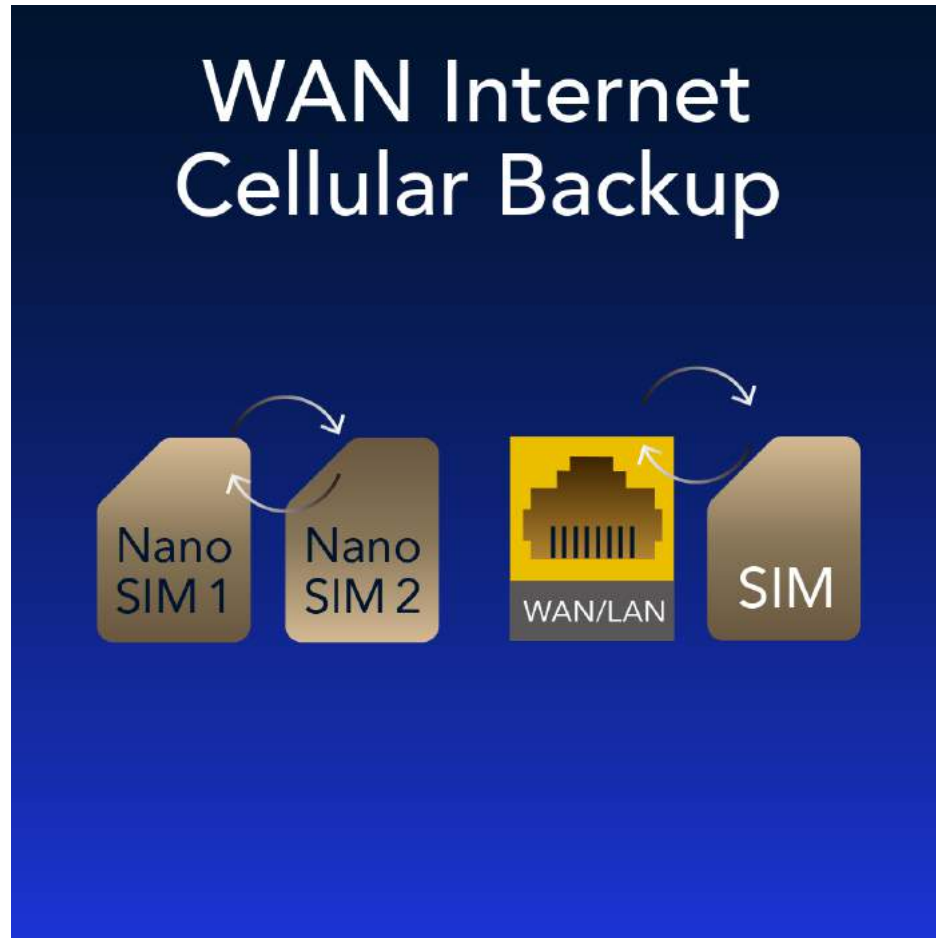
Model	Throughput
AX3000	2974Mbps
AC1200	1167Mbps

100%
backwards compatibility



Redundant SIM Slots

Dual SIM slots provide redundancy and keep the device always online. Both SIM slots can be filled, you can choose whether to use SIM card 1 or SIM card 2, or auto select by Cudy.



WAN Internet, Cellular Backup

Set WAN/LAN port as WAN to enable Cudy use the landline internet from WAN, and 4G/5G connection works as a backup to provide a sustained and reliable internet connection for you.



External SMA Antenna connector

Combined with 4 detachable SMA Antenna interface to connect outdoor cellular antennas for better and stable signal.

5G Bands

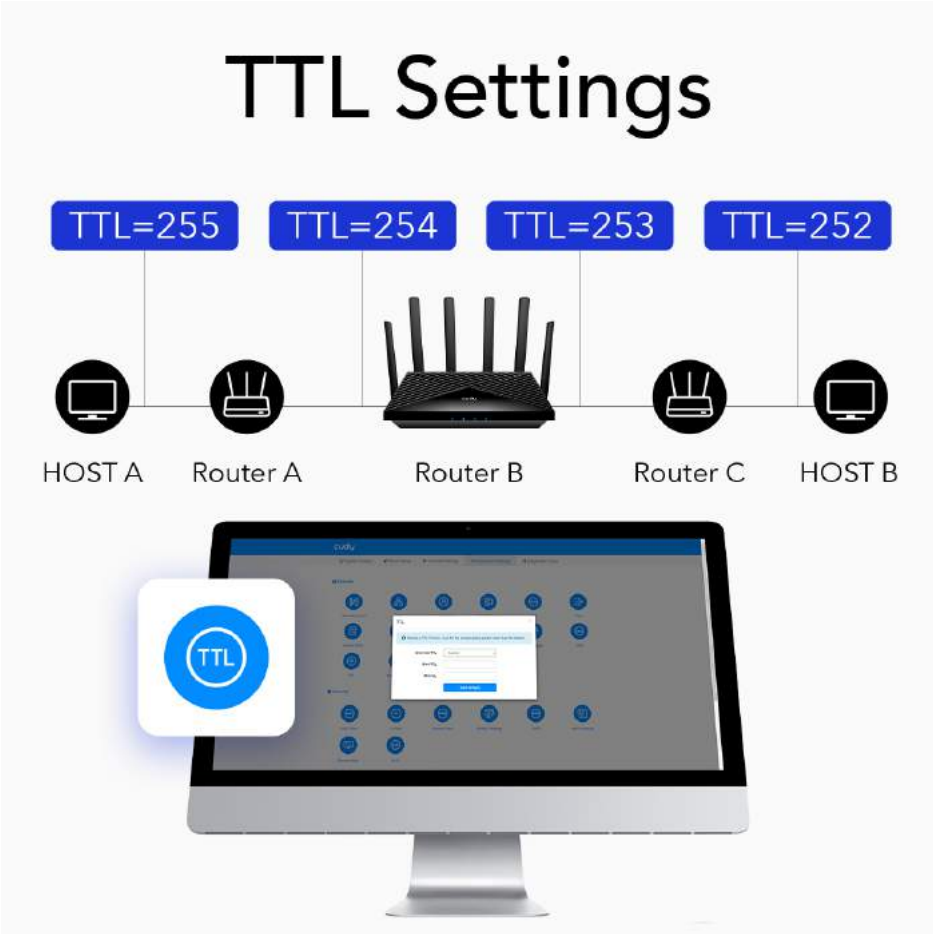
- N1 ○ N2 ○ N3 ○ N5 ○ N7
- N8 ○ N12 ○ N20 ○ N25 ○ N28
- N38 ○ N40 ○ N41 ○ N48 ○ N66
- N71 ○ N77 ○ N78 ○ N79

LTE Bands

- B1 ○ B2 ○ B3 ○ B4 ○ B5 ○ B7
- B8 ○ B12 ○ B13 ○ B14 ○ B18 ○ B19
- B20 ○ B25 ○ B26 ○ B28 ○ B29 ○ B30
- B32 ○ B34 ○ B38 ○ B39 ○ B40 ○ B41
- B42 ○ B43 ○ B46 ○ B48 ○ B66 ○ B71

Band Lock

Band lock make it possible to lock the 4/5G working frequency to one or several bands to keep the stability of operation.



TTL Settings

Support manual set TTL values to meet ISP's requirement(such as Verizon, Visible). Support set IPv4 TTL and IPv6 HL Values.

DNS over TLS

DNS over TLS

Support DNS Encryption with CloudFlare or NextDNS or Google, protects your privacy, prevents eavesdropping and manipulation of DNS data via man-in-the-middle attacks.

Specifications

- 5G NR SA/NSA Wi-Fi Router
- AX3000 dual band Wi-Fi 6
- Qualcomm Chipset Inside
- Dual Nano SIM slots (Redundant SIM)
- 4× Gigabit Ethernet Ports (WAN Failover)
- 4× Detachable Cellular Antennas
- PPTP/L2TP/OpenVPN/WireGuard/IPSec/Zerotier

Hardware

CPU	Qualcomm IPQ5018 (Dual Core 1 GHz)
5G	Quectel 5G Module (Qualcomm X62)
DRAM	256 MB DDR3
Flash	128 MB Nand
Ethernet	1 GbE WAN/LAN + 3 GbE LAN
SIM card slot	2× SIM Slots (Nano)
Button	1× WPS Button
	1× Reset Button
Antennas	2× Fixed WiFi Antennas
	4× Detachable Cellular Antennas
LED	LED indicators (Power, WiFi, Internet, Signal)

Data Speed

Wi-Fi	2.4 GHz (802.11ax/n/g/b, MIMO 574 Mbps)
	5 GHz (802.11ax/ac/n/a, MIMO 2402 Mbps)
5G Module (RM520N)	5G SA Sub-6: Max. 2.4 Gbps (DL)/900 Mbps (UL)
Sub-6 GHz	5G NSA Sub-6: Max. 3.4 Gbps (DL)/550 Mbps (UL)
	LTE-FDD: Max. 1.6 Gbps (DL)/200 Mbps (UL)
	WCDMA: Max. 42 Mbps (DL)/5.76 Mbps (UL)

Mobile Frequency Band

5G Module Model	RM520N
5G NR	3GPP Release 16 NSA/SA operation, Sub-6 GHz
5G NR SA&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;
DL 4×4 MIMO	n1/ 2/ 3/ 7/ 25/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 77/ 78/ 79
UL 2×2 MIMO	n38/ 41/ 48/ 77/ 78/ 79
LTE Category	DL Cat 19 / UL Cat 18
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;
DL 4×4 MIMO	B1/ 2/ 3/ 4/ 7/ 25/ 30/ 38/ 40/ 41/ 42/ 43/ 48/ 66
WCDMA Bands	B1/B2/B4/B5/B8/B19

Software

DHCP	Server, Client List, Address Reservation
NAT	Port Forwarding, Port Triggering, UPnP, DMZ
Firewall	Mac Filter, IP Filter, Domain Filter
DDNS	Compatible with 15 more DDNS providers
VPN Sever & Client	PPTP/L2TP/OpenVPN/WireGuard/IPSec/Zerotier
DNS over TLS	Cloudflare/NextDNS/Google
Schedule	Schedule Reboot /Wi-Fi Schedule
Internet Protocol version	IPv4/IPv6
IPv6	Relay
	Dynamic(SLAAC/DHCPv6)
	Static (Fixed IP)
	Passthrough
	MAP-E (Dual-stack)
	DS-Lite (Dual-stack)
Quality of Service (QoS)	Support
IPTV / VLAN configuration	Support
TTL configuration	Support
Band Selection	Support
CWMP Protocol	TR069 / TR098 / TR111 / TR181

Other

Physical	Product Dimension: 252.5×161×48.2mm (L×W×H)
	Package Dimension: 408×238×58mm (L×W×H)
Power	AC Power Adapter: Input: 90~260 V Output: 12 V, 2.5 A
	DC Input (12 V- 2.5 A) Barrel Plug
Environmental	Operation Temperature: 0° C to +45° C
	Storage Temperature: -40° C to +70° C
	Relative Humidity: 5% to 95% Non-Cond
SMS	Send Message
	Receive Message
Package Contents	5G SA/NSA Wi-Fi Router
	Power Adapter
	RJ45 Ethernet Cable
	Quick Installation Guide
System Requirements	Microsoft Windows, Mac OS, NetWare, UNIX, or Linux Firefox 12.0+, Chrome 20.0+, Safari 4.0+, or other JavaScript-enabled browser Subscription with an internet service provider