

5G-500G sub 6G Gateway

With Load Balancing



5G-500G is a versatile and easy-to-use wireless router with sub 6G capability.

Up to 4.14Gbps from sub 6G

Up to 7.7Gps from 5G mmWave(optional)

Up to 600Mbps from LTE

Up to 2Gbps from 802.11ax/ac/b/g/n 4T4R

Up to 1Gbps from LAN.

Up to 2.5bps from WAN.

KEY FEATURES

5G NR

- 5G SA and NSA (3GPP Release 15)
FR1 (Sub 6G):
FDD: n1, n2, n3, n5, n7, n8, n12, n20, n28, n66, n71
TDD: n38, n41, n77, n78, n79
mmWave(optional): n257, n258, n260, n261

LTE

- LTE Advanced-Pro (3GPP Release 15)
FDD-LTE Bands: 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 66, 71
- TD-LTE Bands: 34, 38, 39, 40, 41, 42, 46, 48
- UMTS/HSPA+ (3GPP Release 8):
FDD Bands: 1, 2, 4, 5, 6, 8, 9, 19

Speed:

- 5G sub 6GHz: 200 MHz, 4x4 DL-MIMO, 2x2 UL-MIMO up to 4.14Gbps down link, 600Mbps uplink.
- 5G mmWave: 800 MHz, UL 2x2+4CC or UL 1x1+ 8CC, DL/UL max: 7.7Gbps / 2 Gbps(optional)
- 4G DL-Cat.22 up to 7x20 MHz, UL-Cat.13 up to 3x20 MHz, DL/UL max: 2 Gbps/150 Mbps
- HSPA+ Dual Carrier DL Cat. 24 / UL Cat. 6, DL/UL max:

42 Mbps / 11 Mbps

GNSS: L1 (GPS, Glonass, Beidou, Galileo) L5 (GPS, Galileo)

WiFi 6

802.11ax/ac/a/b/g/n 4T4R 5GHz up to 2.5Gbps
2.4GHz up to 1.2Gbps.

Optional: 2.4GHz Bluetooth Low Energy (Bluetooth 5.1)
Zigbee, Thread.

INTERFACES

- 4 10/100/1000Mbps LAN port · Auto MDI/MDIX
- 1 10/100/1000/2500Mbps WAN port, Auto MDI/MDIX
- 1 SIM card interface (3V/1.8V)
- Power supply
- External 4 fix antennas interface for WiFi 4T4R
External 4 SMA antenna interface for 5G, LTE.
External 1 fix antenna for Zigbee & Bluetooth.

Button: WPS, System Reset

LED

Power, wifi status, 5G status, Giga WAN, Giga LAN
4 10/100/1000 LAN ports, Link/Act, WPS

Embedded system

- Linux: Router can be shared by 250 users.
Supports OpenWRT · DD-WRT
- **Load balancing:** Adjustable load balancing between Local WAN and wireless WAN (cellular) to keep always on-line.

Protocol: TCP, FTP, PPTP, HTTP, HTTPS, TFTP, DHCP, NAT, IPSec Pass through, ICMP, IGMP, RIPv2, RIP, OSPF, SNMP, RMON, QoS.

Optional: VPN client or gateway, IPSec client.

Others

- Size 22.5cm x 3.8cm x 16cm(metal housing)
- Weight 1 kg
- Normal operating conditions -20...+75°C

LIGHTSPEED International Co.

No.20, Lane 526 NiuPu East Rd. Hsin Chu Taiwan

Tel: +886 3 5396570 Fax: +886 3 5401872

Web : www.lightspeed.com.tw

Contact : peter@lightspeed.com.tw