G230 Compact 5G Router

5G, the 5th generation mobile network, is changing the digital world. Keep pace with the state-of-the-art technology with us - Wlink compact 5G router WL-G230 is ready for your IoT/M2M solutions in various of industries.

With a rugged and compact design housing, simultaneous dual-band 11ac Wi-Fi and embedded 5G cellular module, the small WL-G230 yet powerful 5G Router supports global 5G SA and NSA, supports VPN such as DMVPN, OpenVPN, IPsec, GRE and PPTP/L2TPv3 security features. It can provide incredible-speed, ultra-reliable, low-latency, and large capability wireless connectivity and delivers up to 4Gbps downlink speed and maximum 900 Mbps uplink speed. Ideal for immediate file transfers, live streaming, and public safety applications.

WL-G230 5G router equips two Gigabit Ethernet ports for professional broadcast and one serial port, GbE port is configurable as WAN to realize failover between 5G and WAN. The terminal block connector for power makes the router security enough for true industrial applications.

Not only you can monitor,upgrade, and manage your 5G devices anytime anywhere with Wlink cloud-based Management Platform, but also you can create a custom remote management option because the router supports TR-069 technology and SNMP.

Incredible Mobile Network Speed

5G blazing fast Mobile Broadband Internet, delivering ground-breaking download speeds up to 4Gbps.

Also,fallback support 4G LTE-A pro Cat20/16 mobile network.

Industrial-Grade Compact Design

Robust small housing, easy to integrate and deploy. Resilient against strong magnetic interference.

Industrial terminal block connector for power, additional Radiator panel to avoid overheat.

Cloud-Based Platform Management

G230 can be managed via cloud management platform which provide easy setup,centralized configuration, network analysis and maintenance of large installations. With the platform, the operator can remotely manage and monitor all of routers, Wi-Fi users' status, update configuration files, Statistics, firmware upgrade and advertisement Update.

Low latency, increased capacity

Low Latency is a major advancement of 5G.

It basically means how long a data packet needs to travel from device or from mobile to server.

Massive MIMO can help boost link quality and reliability, and increase capacity w/o requiring more spectrum as well as superior energy efficiency.

Small Yet Powerful

Powerful dual-core 880 MHz CPU, Multiple interfaces include Gigabit Ethernet, RS-232/485,plug-and-play terminals, Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi, WAN and/or AP.

Secure and Reliable Network

Support advanced security features, such as DMVPN, OpenVPN, IPsec IKEv1, IKEv2, L2TPv3, OpenVPN, NAT, port forwarding, a stateful firewall and packet filtering, data encryption, Access Control List (ACL) and provide secure,reliable communications.

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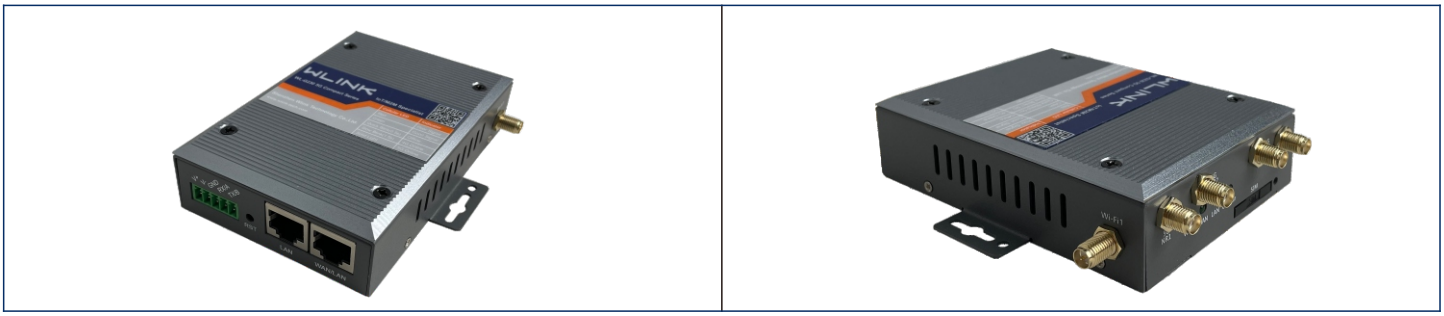
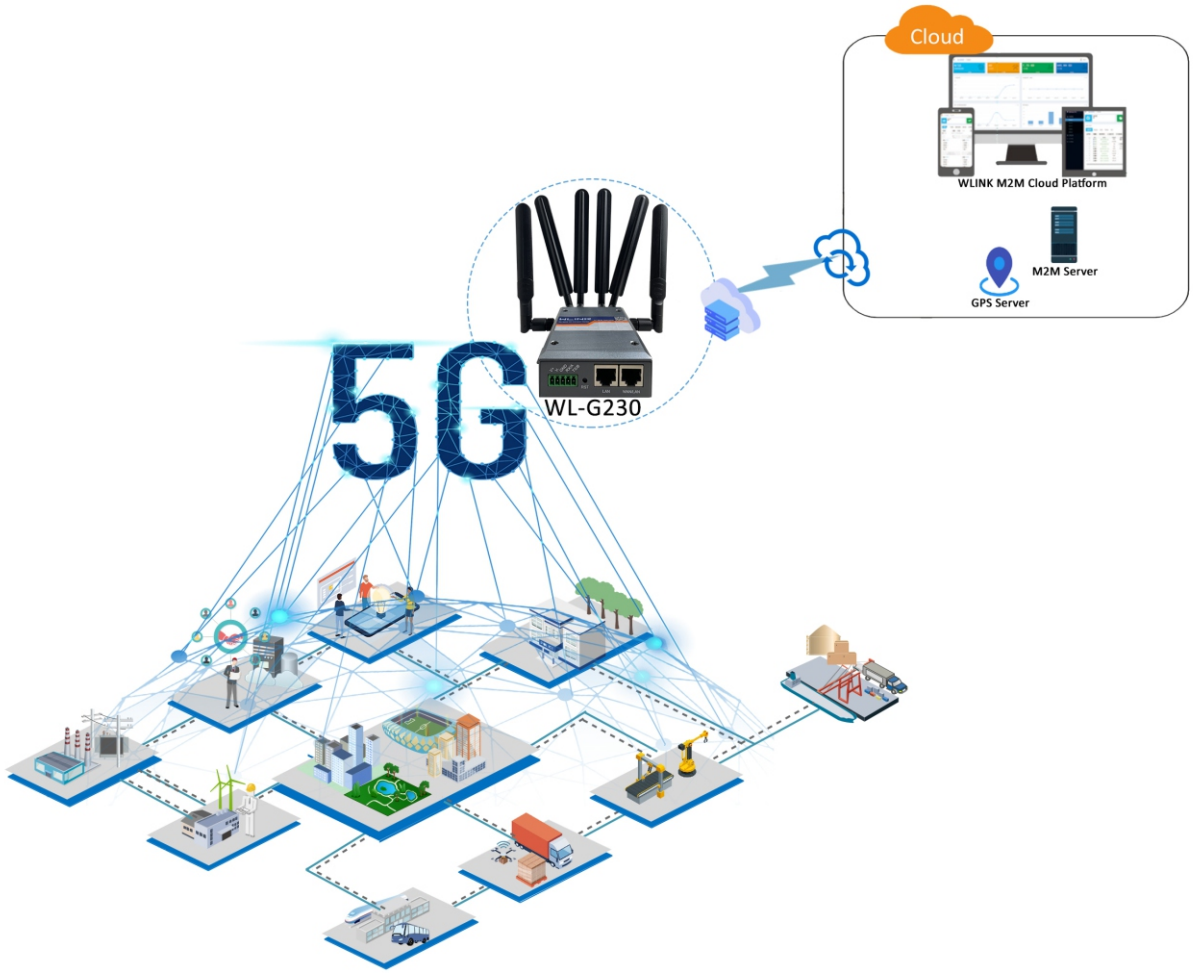
INTERFACE DIAGRAM



HOT CLASSIFICATION OF 5G ROUTER APPLICATION

Enhanced Mobile Broadband	URLLC (Ultra Reliable Low Latency Communications)	Massive IoT
Key network considerations Per-connection peak speed, network capacity Includes immediate file transfers, live streaming, browsing the web, public transit, and other data-intensive and image-intensive use cases	Key network considerations Reliability, latency such as VR and AR, remote control of critical infrastructure, vehicles, Industrial automation, and utilities	Key network considerations scalability to very large number of connections includes Smart City, Connected Vehicles, Smart Home, Smart Media, Smart Factories, Healthcare, Smart Metering, Smart Grid, Oil and gas



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SPECIFICATION

Hardware

Cellular	• 5G N1/N2/N3/N5/N7/N8/N12/N20/N25/N28/N38/N40/N41/N48/N66/N71/N77/N78/N79 • LTE B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B34/B38/39/B40/B41/B42/B48/B66/B71 • WCDMA B1/B2/B3/B4/B5/B6/B8/B19	Hardware System	• MIPS Dual-core 880MHz • 256Mb Flash, 2Gb DDR3 RAM • Hardware Watchdog • GPS Optional
Interface	• 2x Gigabit Ethernet (1x LAN, 1X LAN/1x WAN Configurable) • 5Pins Terminal block connector • 1x RS232 or 1xRS485 Optional, 1x DC(2Pins plugs) • 1x SIM Tray • 4x SMA-K (Female) 5G Antenna Interface • 2x SMA-RP Wi-Fi Interface (Optional)	GPS(Optional)	• GPS Sensitivity: -160dBm • GPS Accuracy: 2.5m CEP • Update Rate: 1Hz@5Hz • Time to First Fix: Cold Status 27s, Hot status 1s. • Protocol:NMEA-0183 2.3V
LED Indicator	• Cellular • LAN • WAN • WLAN	Wi-Fi	• IEEE 802.11 n/ac
Consumption	• Voltage: DC +7.5~32V (standard 12V/2A power adapter) • SIM/R-UIM Card: 3V • Idle: 600mA@+12VDC • Online: 850mA@+12VDC	Other	• Metal with grounding Screw • Dimension:103mm x 73.5mm x 28mm (not including antenna) • Weight: 320g (not including accessories) • Operation temperature: -30~+75℃ • Storage Temperature: -40~+85℃ • Relative humidity: 0~95% (non-condensing) • Warranty: 12 months

Software

Operating System	• WLINK OS based Linux	Firewall	• IP Filter • Mac Filter • Domain name Filter
Network Protocol	• IPv4, IPv6(Optional) • PPPoE • UDP/TCP/ICMP/NTP/DHCP • /Modbus TCP/MQTT • HTTP/HTTPS • Static/RIP v1/2 • SNMP v3	Network Monitoring	• ICMP Check • Traffic Check • Traceroute • Data Capture • Bandwidth Graph • Data Traffic Graph
VPN	• PPTP/L2TPv3 • DMVPN • GRE • IPSec IKEv2 • OpenVPN	Network Features	• 5G/WAN Failover • VLAN • Bandwidth Management • NAT/DMZ • IP Passthrough/Port Redirection • Static/Dynamic routing
Router Management	• Local/Remote GUI • Telnet/SSH • WLINK M2M Platform • TR069	WLAN(optional)	• 2.4G • 5G • 2.4G&5G Mixed

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