G230 Compact 5G Router

5G, the fifth generation of mobile networks, is transforming the digital landscape. Stay ahead with cutting-edge technology—Wlink's compact Industrial 5G router, the WL-G230, is your ultimate solution for IoT/M2M applications across diverse industries.

The WL-G230 combines a rugged, compact design with advanced features, including simultaneous dual-band 11ac Wi-Fi and an embedded 5G cellular module. Despite its small size, this powerful 5G router supports global 5G SA and NSA networks, along with robust VPN protocols such as DMVPN, OpenVPN, IPsec, GRE, and PPTP/L2TPv3 for enhanced security. It delivers lightning-fast speeds, ultra-reliable low-latency connectivity, and high-capacity wireless performance, achieving up to 4Gbps downlink and 900Mbps uplink speeds. Perfect for instant file transfers, live streaming, and mission-critical public safety applications.

Equipped with two Gigabit Ethernet ports for professional broadcasting and one serial port, the WL-G230 offers versatile connectivity options. The GbE port is configurable as WAN, enabling seamless failover between 5G and WAN connections. Additionally, its terminal block power connector ensures secure and reliable operation in demanding industrial environments.

With Wlink's cloud-based management platform, you can monitor, upgrade, and manage G230 5G router from anywhere, at any time. The router also supports TR-069 and SNMP technologies, allowing you to create custom remote management solutions tailored to your needs.

Experience Lightning-Fast 5G Speeds

Enjoy ultra-fast mobile broadband with cutting-edge 5G technology, delivering incredible download speeds of up to 4Gbps. Seamless fallback to advanced 4G LTE-A Pro Cat20/16 networks ensures uninterrupted connectivity wherever you go

Industrial-Grade Compact Design with Superior Performance

Featuring a rugged, space-saving enclosure for seamless integration and deployment. Engineered to withstand intense electromagnetic interference. Equipped with industrial-grade terminal block connectors and an enhanced cooling panel.

Cloud-Based Platform Management

G230 can be managed through a cloud-based platform, offering simplified setup, centralized configuration, and comprehensive network analysis for large-scale deployments. This platform enables operators to remotely monitor and manage all routers, track Wi-Fi user status, update configuration files, access detailed statistics, perform firmware upgrades, and manage advertisement updates—all from a single interface.

Ultra-Low Latency & Enhanced Network Capacity

5G's revolutionary ultra-low latency — measured as the near-instantaneous transmission time between devices and servers — enables real-time responsiveness. Combined with advanced Massive MIMO technology, this innovation dramatically improves link reliability, delivers spectrum-efficient capacity expansion, and achieves industry-leading energy efficiency.

Compact Yet Powerful

Featuring a robust dual-core 880 MHz CPU, this device offers exceptional performance in a compact design. It includes multiple interfaces such as Gigabit Ethernet, RS-232/485, and plug-and-play terminals for seamless connectivity. With Simultaneous Dual-Band Wi-Fi (2.4GHz / 5GHz), it supports both WAN and AP modes, ensuring flexible and reliable wireless communication.

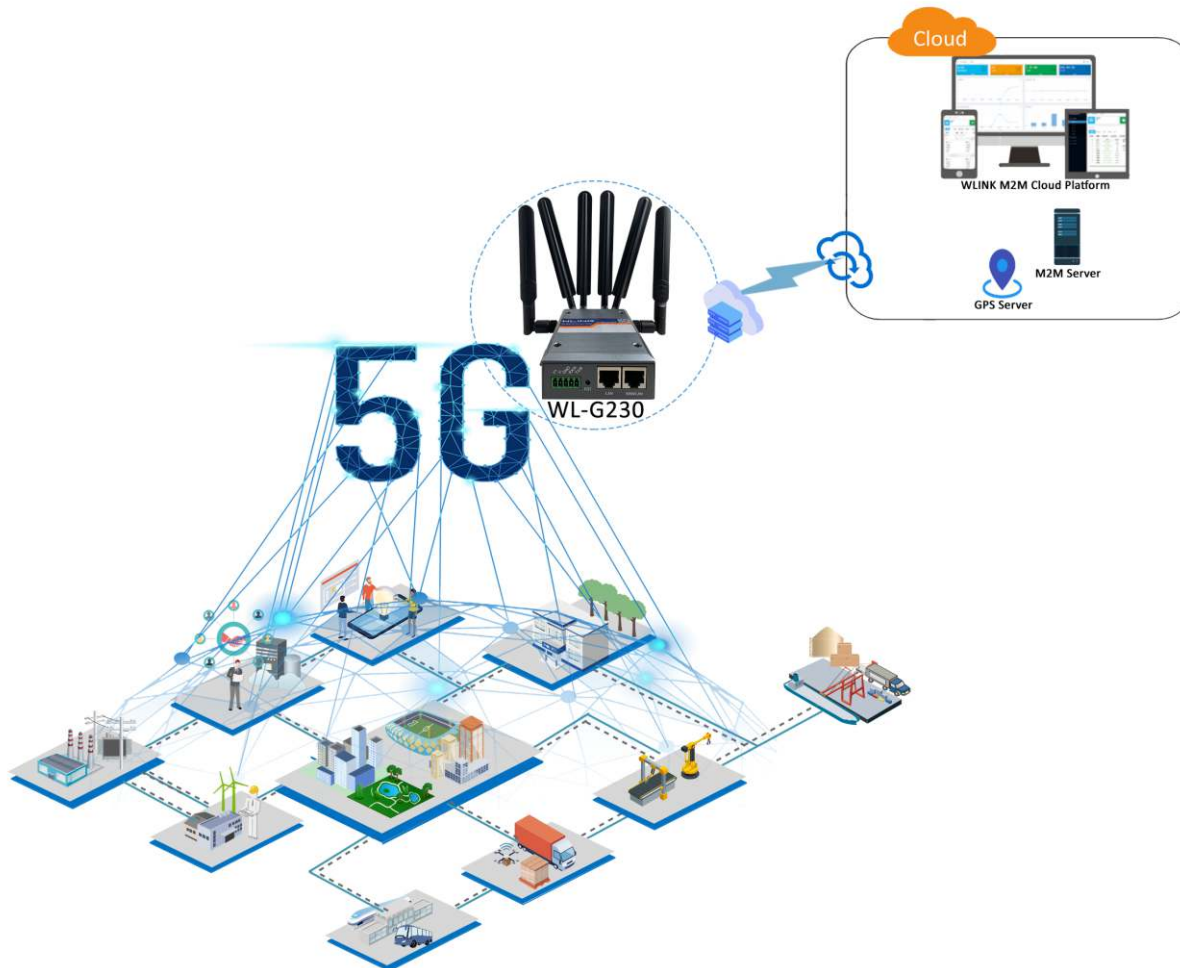## Secure and Reliable Network

The G230 supports advanced security features to ensure robust and dependable communications. Key functionalities include DMVPN, OpenVPN, IPsec IKEv1/IKEv2, L2TPv3, NAT, port forwarding, stateful firewall, packet filtering, data encryption, and Access Control List (ACL). These features work together to provide a secure network environment, safeguarding data and maintaining reliable connectivity.

INTERFACE DIAGRAM
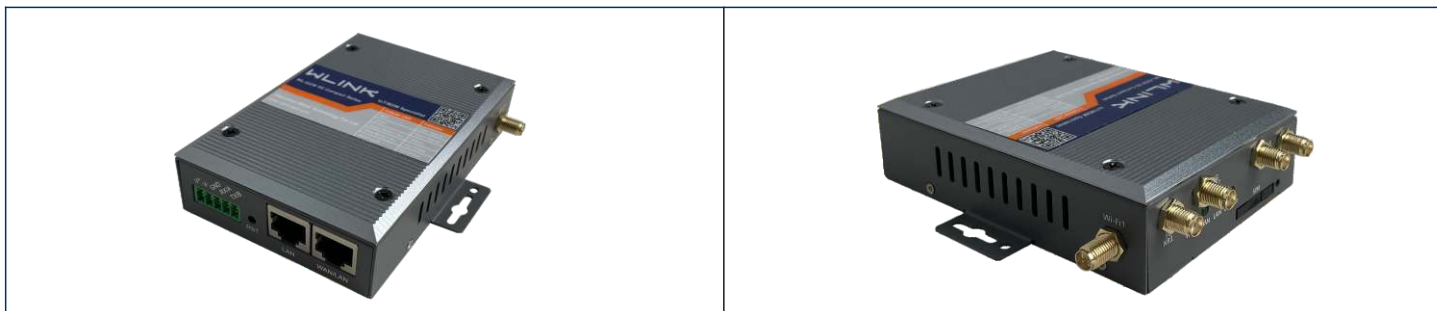
HOT CLASSIFICATION OF 5G ROUTER APPLICATION

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

SPECIFICATION

Hardware

Cellular	• 5G n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/71/75/76/77/78/79 • 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