G530 Industrial 5G Router

Ultra-Reliable Low-Latency Communication

5G, the fifth generation of mobile networks, is set to replace 4G LTE, driven by the growing prominence of Internet of Things (IoT) technology in the near future.

The WLINK G530 is a robust industrial 5G router, upgraded from the classic G510 LTE router. Designed for demanding environments, it features a rugged enclosure, high-performance internal components capable of withstanding extreme temperatures, dust, and moisture, and a terminal block for secure power supply. Equipped with 4x100/1000M Ethernet ports, RS-232/485 serial ports, DI/DO ports, and redundant SIM slots, the G530 is ideal for heavy-duty industrial IoT applications. These include manufacturing, utilities, oil & gas, metals & mining, retail, healthcare, transportation & logistics, smart cities, and enhanced mobile broadband (eMBB). It delivers low-latency, high-reliability connectivity, making it perfect for mission-critical use cases.

The global version of the G530 5G router supports nearly all mainstream carriers worldwide, offering customers the flexibility to choose from a wide range of providers across different regions. With incredible 5G speeds, the G530 revolutionizes mobile broadband experiences, ensuring seamless connectivity and performance.

The 5G router is a game-changer for every industry, business, and user experience. Discover how to maximize your 5G investment and seize the opportunities of this transformative era.

Incredible Speed

Experience blazing-fast 5G mobile broadband internet with groundbreaking download speeds of up to 4Gbps.

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.

Customizable Standard PoE

G530 supports standard PoE 802.3af technology, which can be customized to meet specific needs. With PoE capability, the G530 delivers both data and electrical power to PoE-enabled devices over a single CATx network cable, simplifying installation and reducing wiring complexity.

Cloud-Based Platform Management

G530 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.

Industrial-Grade Compact Design with Superior Performance

The fan-free design, robust housing, and wide operating temperature range (-30°C to 75°C) ensure exceptional durability. It is resilient against strong magnetic interference and features dual power supplies for redundancy, isolated input, and a wide voltage range (7.5 V DC to 32 V DC) for reliable performance in demanding environments.

Extensive Interfaces for Flexible Expansion

The G530 features a wide range of interfaces, including Gigabit Ethernet, RS-232, RS-485, USB, and DI/DO ports. It supports IP-based PLC communication with IPv6 compatibility and offers plug-and-play functionality for seamless integration. Additionally, GPS tracking and expandable storage options are available to further enhance its capabilities.

Secure and Reliable Network

The G530 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.

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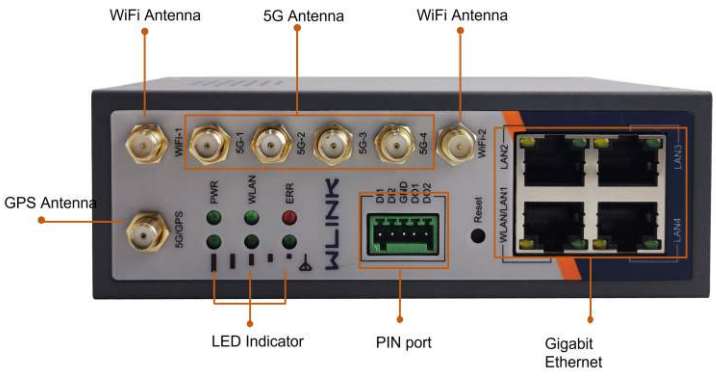
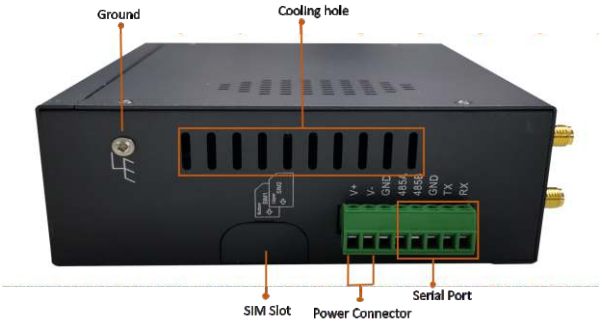
INTERFACE DIAGRAM





Key Application Categories

eMBB (enhanced Mobile Broadband)	URLLC (Ultra Reliable Low Latency Communications)	Massive IoT
Key network considerations Per-connection peak speed, network capacity includes streaming and high definition video, 360 degree video, 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 a 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:n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/71/75/76/77/78/79 • FDD-LTE B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 • TDD-LTE • B34/B38/39/B40/B41/B42/B48 • WCDMA : B1/B2/B3/B4/B5/B6/B8/B19	Hardware System	• MIPS Dual-core 880MHz • 256Mb Flash, 2Gb DDR3 RAM • 16~256GB Storage Optional • Hardware Watchdog
Interface	• 4x Gigabit Ethernet (3x LAN, 1X LAN/1x WAN Configurable) • 8Pins Terminal block connector 1x RS232, 1xRS485, 1x DC (2Pins plugs) • 4x I/O • 2x SIM Slot • 5x SMA-K(Female) 5G Antenna Interface (GPS Antenna Interface Optional) • 2x SMA-RP Wi-Fi Interface	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	• Signal • Error • PWR • 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: 132mm x 112mm x 44mm (not including antenna) • Weight: 400g (not including accessories) • Operation temperature: -30~+75℃ • Store temperature: -40~+85℃ • Relative humidity: 0~95% (non-condensing) • Warranty: Two Years

Software

Operating System	• WLINK OS based on Linux	Firewall	• IP Filter • Mac Filter • Domain name Filter
Network Protocol	• IPv4, IPv6 (Optional)PPPoE • UDP/TCP/ICMP/NTP/DHCP, • HTTP/HTTPS • UPNP • SNMP • TR069	Network Monitoring	• ICMP Check • Traffic Check • Traceroute • Data Capture • Bandwidth Graph • Data Traffic Graph
VPN	• Wireguard/Zerotier • DMVPN/GRE Tunnel • OpenVPN Client/Server • PPTP/L2TP Client/Server • L2TP V3 • IPsec Client/Server	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	WLAN	• 2.4G • 5G • 2.4G&5G Mixed

Customizable Features

PoE	• Customizable (Not default) • Standard PoE 802.3af/at • 2x PoE 1000M • 60W	OpenWRT	• Customizable (Not default) • Architecture: Media Tek • OpenWrt 21.02

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