

5G represents the 5th generation mobile networks and it would replace 4G LTE mainly due to the prominence that the internet of things technology is going to get in near future.

WLINK G530 is the Industrial 5G router upgraded from the classic G510 LTE router, equipped with ruggedized enclosure, powerful internal components to handle temperature extremes, dust and moisture and terminal block for secure power supply. It features 4x100/1000M ethernet port, RS-232/485 serial port, DI/DO port, as well as Redundant SIM slots.

Ideal for harsh environments, WLINK G530 5G router provide the rugged, reliable network connectivity and remote management tools for heavy-duty industrial IoT application including manufacturing, utilities, oil & gas, metals & mining, retail, healthcare, transportation & logistics, smart city, Embb (Enhanced Mobile Broadband) and others automotive use cases which only require low latency and high reliability.

The global version G530 nearly covers all the mainstream carriers worldwide, this gives customers the flexibility to choose from a host of carriers that serve different locations. G530 router upgrades your mobile broadband experience with incredible 5G blazing speeds.

The 5G router will be extraordinary - for every industry, every business and every experience. Explore how to monetize your 5G investment and capture the opportunities of this new era.



Incredible Speed

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



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.



Cloud-Based Platform Management

G530 can be managed via cloud management platform which provides 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.



High performance, Industrial-Grade Design

Fan-free design, Robust housing and a wide operating temperature range (-40°C to 70°C).

Resilient against strong magnetic interference, a wide voltage range (7.5 V DC to 36 V DC).



Extensive Interfaces, Enabling Flexible Expansion

Multiple interfaces, including Gigabit Ethernet, RS-232, RS-485, and DI/DO. IP-based PLC communication, with support for IPv6, and plug-and-play terminals. GPS tracking and Storage is optional to be added on G530.



Secure and Reliable Network

Support robust security features, such as PPTP/L2TP, OpenVPN, IPsec, NAT, port forwarding, a stateful firewall and packet filtering, data encryption, Access Control List (ACL) and provide secure, reliable communications.

INTERFACE DIAGRAM



HOT CLASSIFICATION OF 5G ROUTER APPLICATION

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 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 N1/2/3/5/7/8/12/20/28/38/40/41/66/71/77/78/79 - 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: 12 months
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 /Modbus TCP - HTTP/HTTPS - Static/RIP v1/2 - SNMP	Network Monitoring	- ICMP Check - Traffic Check - Traceroute - Data Capture - Bandwidth Graph - Data Traffic Graph
VPN	- PPTP/L2TP - GRE - IPSec - 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	2.4G 5G 2.4G&5G Mixed