

WLINK

WL-G520 Series

Gigabit Ethernet
Dual Band WLAN



OVERVIEW

WLINK WL-G520 is the enhanced version industrial Powerful 4G LTE Router from WL-R520. It is equipped with the Gigabit Ethernet Port and supply 2.4G and 5G Dual Band WiFi comparing to the traditional WL-R520. Simultaneous 2.4G and 5G Wi-Fi gives the users two independent Wi-Fi network which also help reduce 2.4G Wi-Fi congestion and interference to ensure fast and reliable network service.

With the world's leading ARM Cortex A7 900MHz CPU, WL-G520 achieves data rates up to 1 Gbps and enables gigabit routing.

WLINK G520 also equips serial port as well as a variety of configuration option including GPS and storage. It offers redundant SIM Slot for automatic switching for reliable network, plus terminal block power capability. Advanced routing functionality allows network segmentation and protection of mission critical data. An extensive range of redundancy technologies ensures uninterrupted operation. Thanks to a rugged design and a high industrial temperature span, G520 are suitable for a wide variety of industrial applications.

KEY BENEFITS



Ultra Performance

- High-performance Cortex A7 900MHz CPU
- High and reliable network speed
- Simultaneous Dual Radio, 2.4G and 5G WLAN
- Built-in 5-Port GBE Switch, reducing clutter and the need for extra equipment.
- Optional extended storage



Absolutely Industrial Design

Industrial robust, heavy-duty metal enclosure and connectors designed, good heating diffusion
SIM screw cover design for secure SIM card
Shock and vibration resistant
Scheduled reboot via Timing/SMS/Platform
Endure wide operating temperature range: -30 to 75 degrees.



Security & Protection

Recover from various failures automatically by built-in watch dog, Multi-link detection
Strong electromagnetic interference Resistance
Power Non-polarity and Anti-reverse
Optional redundant SIM slots with automatic switching for reliable network.
Protect sensitive data by stateful firewall and VPN tunnel (IPsec/OpenVPN/GRE/L2TP/PPTP)



Cloud-based management & Maintenance besides user-friendly WEB GUI

Efficiently management and quick configuration
Devices Status Monitoring
Remote Firmware Upgrade
Statistics and Report
Maxi support Number of Devices: 10000+ units

TYPICAL APPLICATION

Energy	Digital Oil Field, Coal Mine, Solar, Smart Grid
Utilities	Smart City, Traffic, Street lighting, Public Safety & Security, 4G Public hotspot, Environment monitoring, Video Surveillance, Smart Locker
Industrial	Remote Telemetry, Tanking Monitoring, Automation, Remote PLC, Remote AMR, Remote Monitoring and control
Retail	ATM, POS(Point-of-Sale), Vending Machine, Lottery Machine, Branch network, Digital Signage, Video Surveillance, failover between WAN&4G/3G
Transportation	Bus Wi-Fi, Wi-Fi on Board, Fleet tracking and management, Bus Advertising

TOPOLOGY DIAGRAM



SPECIFICATION

Item	Description	Item	Description
Optional Cellular Network	- LTE-Advanced / FDD-LTE / TDD-LTE 4G - DC-HSPA+ HSPA+ / HSPA / HSDPA - EDGE/GPRS	Ethernet Standard	10/100/1000 Base-T (IEEE 802.3) - Mode: Full or half duplex (self-adaptive)
WLAN	- Dual Radio, 2.4G and 5G WiFi for local coverage - IEEE 802.11ac compliant & backward compatible with 802.11a/b/g/n - Security: WEP, WPA and WPA2 encryption - Mode: AP, Client, station, bridge mode support	Hardware System	- CPU: Cortex A7 Core. 900MHz - Memory: 128Mb Flash, 1Gb DDR3 RAM - Storage: SD U Disk inside mainboard
Route protocol	- Static route - IPv2/OSPF dynamic route	VPN Tunnel	- IPSec - PPTP/L2TP client - GRE - OpenVPN
Firewall & Filter	- IP packet/Domain/MAC filter - NAT - DMZ	GPS (Optional)	- GPS sensitivity: better than -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
Device management	- Local or remote web browser (IE v8 or above) - CLI/Telnet command - M2M management platform (optional) - SSH configure (optional)	LED instruction	- NET - WLAN - WAN - LAN (LAN1 ~ LAN4)
Interface	5xGigabit Ethernet 1xRS232/RS485 1xDC power interface (Anti-reverse) 5x SMA-K antenna interface 1/2x Standard SIM/R-UIM Slot 1/2x SD Slot	Other	- Dimension: 150mm x 102mm x 25.5mm (not including antenna) - Weight: 410g - Operation temperature: -30~+70°C - Store temperature: -40~+85°C - Related humidity: <95% (non-condensing) - Guarantee: one year
Power Consumption	- Operate 520mA@+12VDC - Idle: 400mA@+12VDC - Power Supply: 7.5VDC - 32 VDC (max 48VDC extendable) - Over Voltage protect - Reverse connect protection	Package Info	1x 4G/3G Router 2x Wi-Fi antenna 2x 4G Magnetic antenna 1x Ethernet Cable 1x Power Supply Adapter

PARTIAL ORDER NUMBER LIST

Part No.	4G/4G+	3G	Region	Category	DL	UL	WiFi	SIM	GPS/ GNSS
WL-G520-LFx	LTE-FDD: B1/B3/B7/B8/B20/B28A LTE-TDD: B38/B40/41	B1/B8	Asia Africa Euro	Cat.4	150M	50M	✓	One	
WL-G520-LFx-d								Two	
WL-G520-LFx-g								One	✓
WL-G520-LFx-dg								Two	✓
WL-G520-LF1	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE-TDD: B40	B1/B2/B4/ B5/B8	Australia Latin America	Cat.4	150M	50M	✓	One	
WL-G520-LF1-d								Two	
WL-G520-LF1-g								One	✓
WL-G520-LF1-dg								Two	✓
WL-G520-LG	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19 /20/25/26/28 LTE-TDD: B38/39/40/41	B1/B2/B4/ B5/B6/B8/ B19	Global	Cat.4	150M	50M	✓	One	
WL-G520-LG-d								Two	
WL-G520-LG-g								One	✓
WL-G520-LG-dg								Two	✓
WL-G520-LF6	LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32 TDD-LTD: B38/ B40 /B41	B1/B3/B5/ B8	EMEA/Asia/ Australia/ Brazil	Cat.6	300M	50M	✓	One	
WL-G520-LF6-d								Two	
WL-G520-LF6-g								One	✓
WL-G520-LF6-dg								Two	✓
WL-G520-LF12	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B 13/B14/B17/B18/B19/B20/B21 /B25/B26/B28/B29/B30/B32/B 66 LTE-TDD: B38/B39/B40/B41	B2/B4/B5	Global	Cat.12	600M	150M	✓	One	
WL-G520-LF12-d								Two	
WL-G520-LF12-g								One	✓
WL-G520-LF12-dg								Two	✓

Note:

1. If request other frequency band model, please consult wink sale person or local distributor.
2. The above list only includes partial available models, please consult wink sale person if can't find the suitable one.