

Over View

WLINK WL-R520 series Router is the internet of thing mobile broadband router and a machine to machine (M2M) industrial cellular router, which can optional works on the 4G or 3G cellular network to provide reliable, secure and high speed wireless connectivity with VPN supported. It is powerful and programmable industrial mobile router with high performance and harden casing design for remote management, telemetry, condition monitoring, CCTV, ATMs, vending machine and other M2M applications.

R520 4G router is an ideal wireless data transfer device for applications transferring large data load because of ultimately fast transfer speed in 4G network reaching up to 150M download and up to 50M upload. VPN features also can be configured in WLINK router, allowing you to utilize virtual private network service through a 4G/3G wireless router and built for stresses and workload of a modern industrial or commercial environment.

With dual SIM optional, WL-R520 series router could backup network between the two SIM cards to ensure continuous connection. The router also option with GPS capability, enable it ideal for fleet tracking or access management.



Benefit For Cellular Router

Avoid fixed-line trouble

Cost-effective, 30% saving

Rapid Deployment

Flexible placement

Security and Reliability

Return on Invest

Basic Features

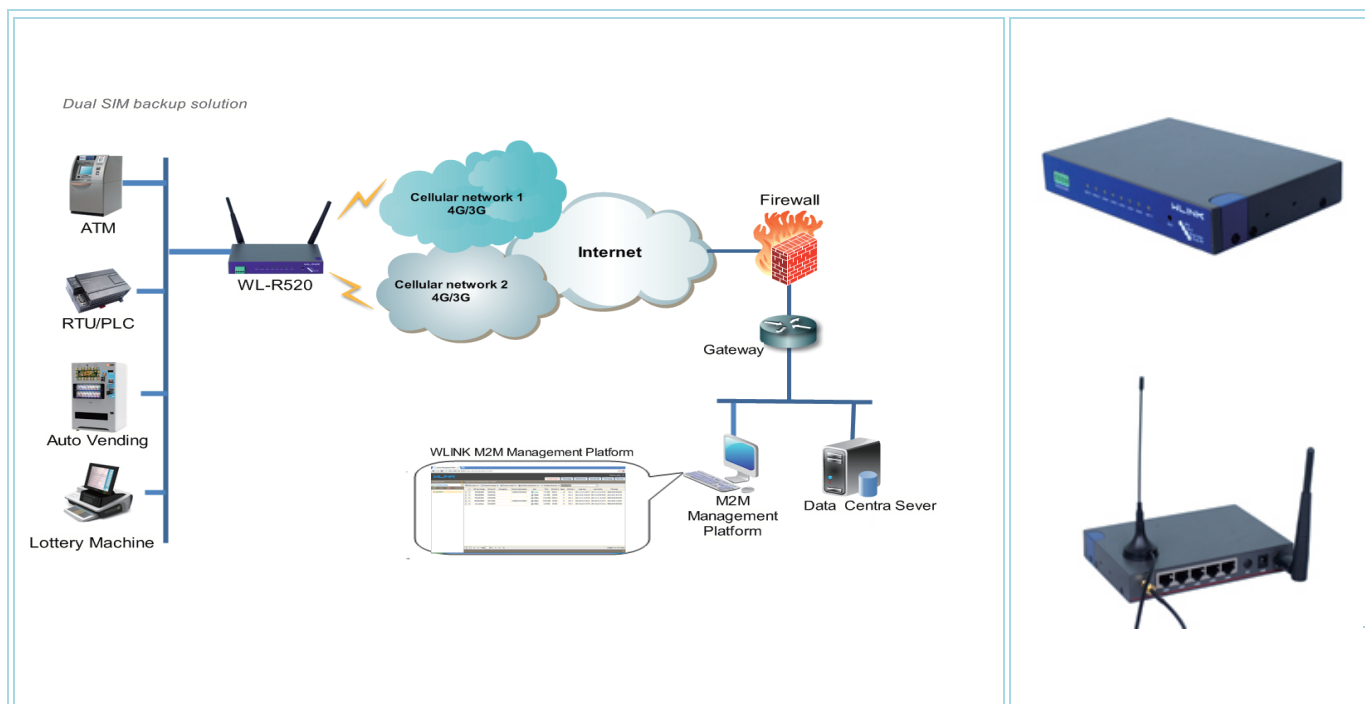
- ◎ Industrial robust design and compact metal housing
- ◎ High data speed via FDD / TDD 4G or 3G network, 2G backward compatible
- ◎ Strong electromagnetic interference Resistance, Heat endure and radiation ability
- ◎ HULtra security, VPN: IPsec, PPTP, L2TP, GRE
- ◎ Built-in watch dog, Multi-link detection
- ◎ 802.11b/g/n Wi-Fi support, 150Mbps data rate
- ◎ 5xLAN or 4xLAN, 1xWAN
- ◎ MIMO antenna for 4G
- ◎ WAN port support PPPoE, static IP, DHCP client.
- ◎ Failover or Backup between WAN and Cellular
- ◎ Always online, reboot automatically if disconnected to ensure continual connection

- ◎ Support APN and VPDN wireless private network access in
- ◎ LCP/ICMP/flow/heartbeat check, ensure network usability
- ◎ Web/CLI/SSH/Management platform support, easy configure
- ◎ SNMP network management, NTP support
- ◎ Local & remote management (configuration, status, upgrade firmware)
- ◎ Supports DHCP Server
- ◎ Supports DNS proxy and Dynamic DNS (DDNS)
- ◎ Supports timing operation
- ◎ Supports LED status indication
- ◎ Shock and vibration resistant

Advanced Features

- ◎ Network Type includes FDD/TDD 4G, DC-HSPA+/HSPA+/HSPA/UMTS/WCDMA 3G and EVDO 3G
- ◎ GPS capability optional for fleet management or other tracking application
- ◎ Support Serial to IP communication
- ◎ Dual SIM optional for failover/backup between two different network
- ◎ Dual SIM Dual Modem optional for fast switch between two different network.
- ◎ Captive portal for public WiFi Hotspot
- ◎ OpenVPN
- ◎ PPTP Server optional
- ◎ Schedule reboot
- ◎ Customized acceptable

Typical Diagram and Application



Energy	Digital Oil Field, Coal Mine, Solar, Smart Grid,
Utilities	Smart City, Traffic, Street Lighting, Public Safety, 4G Public hotspot, Environment monitoring, Video Surveillance
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 WiFi, WiFi on Board, Vehicle video surveillance, Fleet tracking and management, Bus Advertising

Specification

Optional Supports Mobile Network	◎ FDD / TDD 4G ◎ DC-HSPA+/HSPA+/HSPA/WCDMA/UMTS 4G ◎ EDGE/GPRS ◎ CDMA2000 EVDO/CDMA 1X	Ethernet Standard	◎ IEEE 802.3 ◎ IEEE 802.3u
Interface	◎ 5×10/100Mb LAN (4×LAN, 1×WAN) ◎ 1× RS-232 ◎ 3× SMA-K antenna interface ◎ 1× Standard SIM/R-UIM interface (2× SIM optional) ◎ 1× Standard DC power interface	LED instruction	◎ Net ◎ WLAN ◎ WAN ◎ LAN (LAN1~LAN4)
Route protocol	◎ Static route ◎ RIPV2/OSPF dynamic route	Power supply	◎ 5 - 36VDC
Device management	◎ Local or remote web browser (IE v8 or above) ◎ CLI/Telnet command ◎ M2M management platform (optional) ◎ SSH configure (optional)	WiFi	◎ Standard: IEEE 802.11b/g/n ◎ WEP, WPA and WPA2 encryption ◎ Standard 150Mbps, 300Mbps optional ◎ AP, Client, station, bridge mode support
Firewall & Filter	◎ IP packet/Domain/MAC filter ◎ NAT ◎ DMZ	VPN	◎ IPSec ◎ PPTP/L2TP client ◎ GRE/IPIP
Power Consumption	◎ Idle: 180mA@+12VDC ◎ Single Module Communications: 210mA@+12VDC ◎ Dual Module Communications: 600mA@+12VDC	Other	◎ Dimension: 176mm x 105mm x 25mm (not including antenna) ◎ Weight: 510g ◎ Operation temperature: -30~+70℃ ◎ Store temperature: -40~+85℃ ◎ Related humidity: <95% (non-condensing) ◎ Guarantee: one year
Standard	EN 300 328 v 1.7.1 (2016-11) EN 301 489-1 EN 301 908-1,2 EN 55032:2015 EN 55024:2010 EN 61000-3-3:2013	EN 301 489-17 EN 301 489-52 EN 301 908-13, EN 60950-1, EN 61000-3-2:2014 EN 62311:2008	Approval CE RoHS CCC FCC

Partial Order Number List

Model	4G	3G	Interface	Dual SIM	WiFi	GPS	DL	UL
WL-R520LFX	FDD: B1/B3/B7/B8/B20/B28A TDD: B38/B40/B41	HSPA+ B1/B8	4xLAN 1xWAN		✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LFX-d	FDD: B1/B3/B7/B8/B20/B28A TDD: B38/B40/B41	HSPA+ B1/B8	4xLAN 1xWAN	✓	✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LFX-g	FDD: B1/B3/B7/B8/B20/B28A TDD: B38/B40/B41	HSPA+ B1/B8	4xLAN 1xWAN		✓	✓	FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF	FDD: B1/B3/B5/B7/B8/B20 TDD: B38/B40/B41	HSPA+ B1/B5/B8	4xLAN 1xWAN		✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF-d	FDD: B1/B3/B5/B7/B8/B20 TDD: B38/B40/B41	HSPA+ B1/B5/B8	4xLAN 1xWAN	✓	✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF-g	FDD: B1/B3/B5/B7/B8/B20 TDD: B38/B40/B41	HSPA+ B1/B5/B8	4xLAN 1xWAN		✓	✓	FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF1	FDD: B1/B2/B3/B4/B5/B7/B8/B28 TDD: B40	HSPA+ B1/B2/B5/B8	4xLAN 1xWAN		✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF1-d	FDD: B1/B2/B4/B4/B5/B7/B8/B28 TDD: B40	HSPA+ B1/B2/B5/B8	4xLAN 1xWAN	✓	✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF1-g	FDD: B2/B3/B4/B5/B12/B13/ /B66/B71	HSPA+ B1/B2/B5/B8	4xLAN 1xWAN		✓	✓	FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF2	FDD: B2/B3/B4/B5/B12/B13/ /B66/B71	HSPA+ B2/B4/B8	4xLAN 1xWAN		✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF2-d	FDD: B2/B3/B4/B5/B12/B13/ /B66/B71	HSPA+ B2/B4/B8	4xLAN 1xWAN	✓	✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LF2-g	FDD: B2/B3/B4/B5/B12/B13/ /B66/B71	HSPA+ B2/B4/B8	4xLAN 1xWAN		✓	✓	FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LG	B1/B3/B5/B7/B8/B12/B13/B18/19 /B20B25/B26/B28/B30/B41	HSPA+ B1/B2/B4/B5/B6/B8/B19	4xLAN 1xWAN		✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LG-d	B1/B3/B5/B7/B8/B12/B13/B18/19 /B20B25/B26/B28/B30/B41	HSPA+ B1/B2/B4/B5/B6/B8/B19	4xLAN 1xWAN	✓	✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520LG-g	B1/B3/B5/B7/B8/B12/B13/B18/19 /B20B25/B26/B28/B30/B41	HSPA+ B1/B2/B4/B5/B6/B8/B19	4xLAN 1xWAN		✓	✓	FDD: 150M TDD: 130M	FDD: 50M TDD: 35M
WL-R520H2	N/A	HSPA B1/B2/B5/B8	4xLAN 1xWAN		✓		21M	5.76M
WL-R520H2-d	N/A	HSPA B1/B2/B5/B8	4xLAN 1xWAN	✓	✓		21M	5.76M
WL-R520H2-g	N/A	HSPA B1/B2/B5/B8	4xLAN 1xWAN		✓	✓	21M	5.76M
WL-R520H4	N/A	HSPA+ B1/B8	4xLAN 1xWAN		✓		21M	5.76M
WL-R520H4-d	N/A	HSPA+ B1/B8	4xLAN 1xWAN	✓	✓		21M	5.76M
WL-R520H4-g	N/A	HSPA+ B1/B8	4xLAN 1xWAN		✓	✓	21M	5.76M
WL-R520LF-dm	FDD: B1/B2/B3/B4/B5/B7/B8/B20 TDD: B38/B40/B41	HSPA+ B1/B2/B5/B8	4xLAN 1xWAN	Dual SIM Dual Module	✓		FDD: 150M TDD: 130M	FDD: 50M TDD: 35M

Note:

1. If request other frequency band model, please consult wlink sale person.
2. Please specify before order if need OpenVPN.
3. Please sepcify when order if request other optional features.