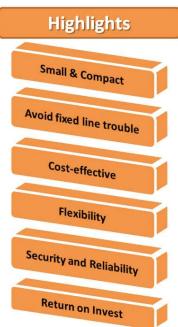## Over View

WLINK WL-R100 series Router is the internet of thing mobile broadband router and a machine to machine (M2M) industrial cellular router, which can optional works on 4G/3G cellular network to provide reliable, secure and high speed mobile connectivity with VPN supported. The R100 is powerful and programmable industrial mobile router with high performance, small, compact and hardened mechanical design, it allows you to easily integrate it into your system, and is suitable to be used in the application where space is critical factors, such as intelligent transportation system, telemetry, ATM, Vending machine and video surveillance etc.

WLINK WL-R100 equips a single Ethernet LAN port and one serial port, 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.

Setting up the WLINK cellular R100 router is quick and easy - simply insert your 4G SIM card into the SIM card slot, connect the antennas and power up the equipment. In order to connect to the internet you simply need to enter the correct APN settings in the web setting interface and the router will then connect and provide high speed 4G mobile broadband internet.

Highlights

- Small & Compact
- Avoid fixed line trouble
- Cost-effective
- Flexibility
- Security and Reliability
- Return on Invest

Basic Features

◎ Industrial robust design and compact metal housing
◎ High data speed via FDD 4G or 3G network, 2.5G backward compatible
◎ Strong electromagnetic interference Resistance
◎ Heat endurance and radiation ability
◎ Built-in watchdog, Multi-link detection
◎ Ultra security, VPN: PPTP, L2TP, GPE, IPsec
◎ High Reliability: Hardware link self-recovery
◎ MIMO antenna for 4G
◎ Always online, reboot automatically if disconnected to ensure continual connection
◎ Support APN and VPDN wireless private network access in
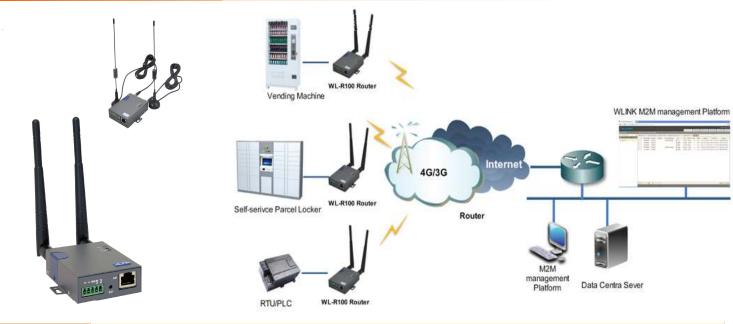◎ LCP/ICMP/flow/heartbeat check, ensure network usability

◎ 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

Optional Features

◎ Optional Network Type includes FDD/TDD 4G, DC-HSPA+/H SPA+/HSPA/UM TS/WCDMA 3G, EVDO 3G

◎ DTU serial communication function optional

◎ M2M Management platform software optional available

◎ OpenVPN Optional

◎ PPTP Sever optional

◎ Schedule reboot optional

◎ Customized acceptable

◎ Wall Mounting or DIN Rail Mounting optional

Typical Diagram and Application

Energy	Digital Oil Field, Coal Mine, Solar, Smart Grid,
Utilities	Smart City, Traffic, Street lIghting, Public Safty, 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
Transpotation	Vehicle Video Streaming surveillance, Fleet tracking management, Advertising on Bus

Specification

Supports Mobile Network	◎ FDD / TDD 4G ◎ DC-HSPA+/HSPA+/HSPA/HSDPA/WCDMA/UMTS ◎ EDGE/GPRS ◎ CDMA2000 EVDO/CDMA 1X	**Ethernet Standard**	◎ IEEE 802.3 ◎ IEEE 802.3u
Interface	◎ 1×10/100Mb LAN interface ◎ 1× RS-232 console port(optional) ◎ 2× SMA-K antenna interface ◎ 1× Standard SIM/R-UIM interface ◎ 1× Standard DC power interface	**LED instruction**	◎ Net ◎ LAN ◎ PWR
Route protocol	◎ Static route ◎ RIPv2/OSPF dynamic route	**Power supply**	◎ 5 ~ 32VDC
Device management	◎ Local or remote web browser (IE v8 or above) ◎ CLI/Telnet command ◎ M2M management platform (optional) ◎ SSH configure (optional)	**VPN**	◎ IPSec ◎ PPTP/L2TP client ◎ GRE/IPIP
Firewall & Filter	◎ IP packet/Domain/MAC filter ◎ NAT ◎ DMZ	**Other**	◎ Dimension: 78.5mm x 59mm x 23.5mm (not including antenna) ◎ Weight: 150g ◎ Operation temperature: -30 ~ +70 degree ◎ Store temperature: -40 ~ +85 degree ◎ Related humidity: <95% (non-condensing) ◎ Guarantee: one year

Partial Order Number List

Model	4G	3G	Interface	WiFi	SIM	DL	UL
WL-R100LFX	FDD: B1/B3//B7/B8/B20/B28A TDD: B38/B40/B41	HSPA+ B1/B8	1xLAN 1xRS-232	No	One	FDD: 150M TDD:60M	FDD:50M TDD:60M
WL-R100LF	FDD: B1/B3/B5/B7/B8/B20 TDD: B38/B40/B41	HSPA+ B1/B5/B8	1xLAN 1xRS-232	No	One	FDD: 150M TDD:60M	FDD:50M TDD:60M
WL-R100LF1	FDD: B1/B2/B3/B4/B5/B7/B28 TDD: B40	HSPA+ B1/B2/B5/B8	1xLAN 1xRS-232	No	One	FDD:150M TDD:60M	FDD:50M TDD:60M
WL-R100LF2	FDD: B2/B4/B5/B12/B13/B14/B66/B71	HSPA+ B2/B4/B5	1xLAN 1xRS-232	No	One	FDD: 150M TDD:60M	FDD:50M TDD:60M
WL-R100LG	LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18 B19/B20/B25/B26/B28/B38/B40/B41	HSPA+ B1/B2/B4/B5/B6/B8/B19	1xLAN 1xRS-232	No	One	FDD: 150M TDD:60M	FDD:50M TDD:60M
WL-R100H2	N/A	HSPA+ B1/B2/B5/B8	1xLAN 1xRS-232	No	One	21M	5.76M
WL-R100H4	N/A	HSPA+ B1/B8	1xLAN 1xRS-232	No	One	21M	5.76M
WL-R100E	N/A	EVDO 800MHz	1xLAN 1xRS-232	No	One	3.1M	1.8M

Note:

1. If request other frequency band model, please consult wlink sales person

2. Please specify before order if need OpenVPN

3. Please sepcify when order if request other optional features