

## Over View

WLINK WL-R210 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 I/O and 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.

WL-R210 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 100M 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 function, WL-R210 series router could backup network between the two SIM cards to ensure continuous connection. With optional GPS capability, enable the router ideal for fleet tracing or access management. The WL-R210 router is well-suited for M2M Connectivity in harsh or remote environment because of its rugged metal casing, Input Output port, DIN-rail mounts and operating range of -30 to +70 degree.



### Benefit For Cellular Router

Avoid fixed-line trouble

Cost-effective, 30% saving

Rapid Deployment

Flexible placement

Security and Reliability

Return on Invest

## Basic Features

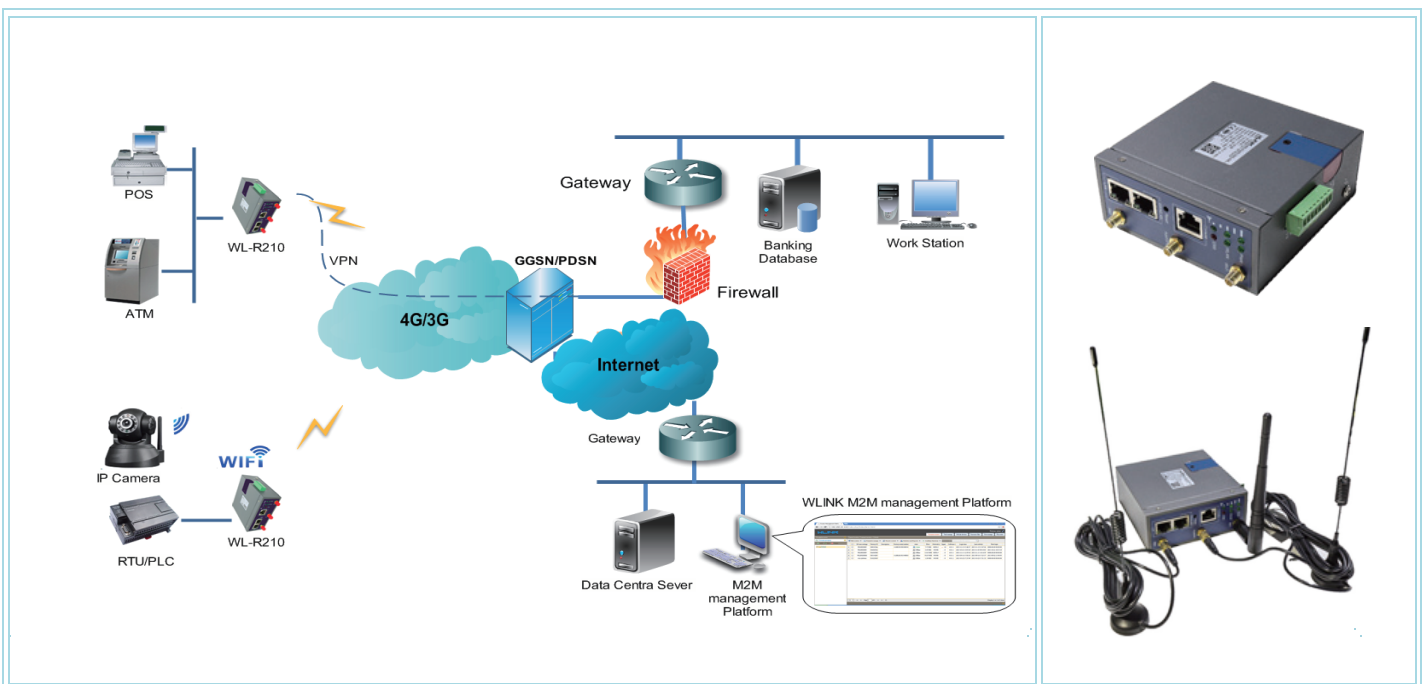
- ⊙ Industrial robust design and compact metal housing, heat endurance and radiation ability
- ⊙ High data speed via FDD / TDD 4G or 3G network, 2G backward compatible
- ⊙ Strong electromagnetic interference Resistance
- ⊙ Support DIN-Rail Mounting for industrial
- ⊙ Built-in watch dog, Multi-link detection
- ⊙ 802.11b/g/n Wi-Fi support, 150Mbps data rate
- ⊙ 2x Digital Input(DI), 1x Digital Output (DO), suit for I/O communication
- ⊙ MIMO antenna for 4G
- ⊙ WAN port support PPPoE, static IP, DHCP client.
- ⊙ Standard equipped with Dual SIM Single Modem for Failover or Backup between two network
- ⊙ 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)
- ◎ Ultra security, VPN: PPTP, L2TP, GPE, IPsec VPN
- ◎ Supports LED status indication
- ◎ Shock and vibration resistant

## Optional Features

- ◎ Optional Network Type includes FDD / TDD 4G, UMTS/WCDMA 3G, EVDO 3G
- ◎ GPS capability for fleet management or other tracking application Optional
- ◎ DTU serial communication function optional
- ◎ Dual SIM Dual Module for fast switch between two different network
- ◎ SMS Controlable optional
- ◎ OpenVPN Optional
- ◎ Captive Portal for Wifi Hotspot application Optional
- ◎ PPTP Sever optional
- ◎ Schedule reboot optional
- ◎ Customized acceptable

## Typical Diagram and Application



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

## Specification

|                                         |                                                                                                                                                                                                                                                                                               |                                                                                                    |                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Optional Supports Mobile Network</b> | <ul style="list-style-type: none"> <li>◎FDD / TDD 4G</li> <li>◎DC-HSPA+/HSPA+/HSPA/WCDMA/UMTS</li> <li>◎EDGE/GPRS</li> <li>◎CDMA2000 EVDO/CDMA 1X</li> </ul>                                                                                                                                  | <b>Ethernet Standard</b>                                                                           | <ul style="list-style-type: none"> <li>◎IEEE 802.3</li> <li>◎IEEE 802.3u</li> </ul>                                                                                                                                                                                                                  |
| <b>Interface</b>                        | <ul style="list-style-type: none"> <li>◎2×10/100Mb LAN (1xLAN, 1xWAN)</li> <li>◎1× RS-232 console port(RJ45)</li> <li>◎2x Digital Input, 1x Digital Output</li> <li>◎3× SMA-K antenna interface</li> <li>◎2× Standard SIM/R-UIM interface</li> <li>◎1× Standard DC power interface</li> </ul> | <b>LED instruction</b>                                                                             | <ul style="list-style-type: none"> <li>◎PWR</li> <li>◎Signal</li> <li>◎WLAN</li> <li>◎ERR</li> <li>◎LAN (LAN, LAN/WAN)</li> </ul>                                                                                                                                                                    |
| <b>Route protocol</b>                   | <ul style="list-style-type: none"> <li>◎ Static route</li> <li>◎ RIPv2/OSPF dynamic route</li> </ul>                                                                                                                                                                                          | <b>Power supply</b>                                                                                | ◎ 5 - 32VDC                                                                                                                                                                                                                                                                                          |
| <b>Device management</b>                | <ul style="list-style-type: none"> <li>◎Local or remote web browser (IE v8 or above)</li> <li>◎CLI/Telnet command</li> <li>◎M2M management platform (optional)</li> <li>◎SSH configure (optional)</li> </ul>                                                                                  | <b>WiFi</b>                                                                                        | <ul style="list-style-type: none"> <li>◎Standard: IEEE 802.11b/g/n</li> <li>◎WEP, WPA and WPA2 encryption</li> <li>◎Standard 150Mbps, 300Mbps optional</li> <li>◎AP, Client, station, bridge mode support</li> </ul>                                                                                 |
| <b>Firewall &amp; Filter</b>            | <ul style="list-style-type: none"> <li>◎IP packet/Domain/MAC filter</li> <li>◎NAT</li> <li>◎DMZ</li> </ul>                                                                                                                                                                                    | <b>VPN</b>                                                                                         | <ul style="list-style-type: none"> <li>◎IPSec</li> <li>◎PPTP/L2TP client</li> <li>◎GRE/IPIP</li> </ul>                                                                                                                                                                                               |
| <b>Power Consumption</b>                | <ul style="list-style-type: none"> <li>◎Idle: 213mA@+12VDC</li> <li>◎Communications: 265mA@+12VDC</li> </ul>                                                                                                                                                                                  | <b>Other</b>                                                                                       | <ul style="list-style-type: none"> <li>◎Dimension: 102mm x 100mm x 42mm (not including antenna)</li> <li>◎Weight: 350g</li> <li>◎Operation temperature: -30~+70℃</li> <li>◎Store temperature: -40~+85℃</li> <li>◎Related humidity: &lt;95% (non-condensing)</li> <li>◎Guarantee: one year</li> </ul> |
| <b>Standard</b>                         | EN 300 328 v 1.7.1 (2016-11)<br>EN 301 489-1<br>EN 301 908-1<br>EN 55024:2015<br>EN 55032:2015<br>EN 61000-3-3:2008                                                                                                                                                                           | EN 301 489-17<br>EN 301 489-52<br>EN 301 908-2/13,<br>EN 60950-1,<br>EN 61000-3-2<br>EN 62311:2008 | <b>Approval</b><br><br>CE<br>RoHS<br>CCC<br>E-Mark                                                                                                                                                                                                                                                   |

## Partial Order Number List

| Model        | 4G                                          | 3G                        | Interface                    | Dual SIM | WiFi | GPS | DL                   | UL                   |
|--------------|---------------------------------------------|---------------------------|------------------------------|----------|------|-----|----------------------|----------------------|
| WL-R210LF-d  | FDD: B1/B3/B5/B7/B8/B20<br>TDD: B38/B40/B41 | HSPA+/HSPA<br>B1/B5/B8    | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    |     | FDD:150M<br>TDD: 60M | FDD: 50M<br>TDD: 35M |
| WL-R210LF-g  | FDD: B1/B3/B5/B7/B8/B20<br>TDD: B38/B40/B41 | HSPA+/HSPA<br>B1/B5/B8    | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    | ✓   | FDD:150M<br>TDD: 60M | FDD: 50M<br>TDD: 35M |
| WL-R210LF1-d | FDD: B1/B2/B3/B4/B5/B7/B8/B28<br>TDD: B40   | HSPA+/HSPA<br>B1/B2/B5/B8 | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    |     | FDD:150M<br>TDD: 60M | FDD: 50M<br>TDD: 35M |
| WL-R210LF1-g | FDD: B1/B2/B3/B4/B5/B7/B8/B28<br>TDD: B40   | HSPA+/HSPA<br>B1/B2/B5/B8 | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    | ✓   | FDD:150M<br>TDD:130M | FDD: 50M<br>TDD: 35M |
| WL-R210LH-d  | FDD: B1/B2/B3/B4/B5/B7/B8/B20               | HSPA+/HSPA<br>B1/B2/B5/B8 | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    |     | 150M                 | 50M                  |
| WL-R210LH-g  | FDD: B1/B2/B3/B4/B5/B7/B8/B20               | HSPA+/HSPA<br>B1/B2/B5/B8 | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    | ✓   | 150M                 | 50M                  |
| WL-R210LZ-d  | FDD: B1/B2/B4/B5/B7/B8/B12/B17<br>TDD: B38  | HSPA+/HSPA<br>B1/B2/B5/B8 | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    |     | FDD:100M<br>TDD: 60M | FDD: 50M<br>TDD: 35M |
| WL-R210LZ-g  | FDD: B1/B2/B4/B5/B7/B8/B12/B17<br>TDD: B38  | HSPA+/HSPA<br>B1/B2/B5/B8 | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    | ✓   | FDD:100M<br>TDD: 60M | FDD: 50M<br>TDD: 35M |
| WL-R210H-d   | N/A                                         | HSPA+<br>B1/B2/B5         | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    |     | 21M                  | 5.76M                |
| WL-R210H-g   | N/A                                         | HSPA+<br>B1/B2/B5         | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    | ✓   | 21M                  | 5.76M                |
| WL-R210H2-d  | N/A                                         | HSPA<br>B1/B2/B5/B8       | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    |     | 14M                  | 5.76M                |
| WL-R210H2-g  | N/A                                         | HSPA<br>B1/B2/B5/B8       | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    | ✓   | 14M                  | 5.76M                |
| WL-R210H4-d  | N/A                                         | HSPA+<br>B1/B8            | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    |     | 21M                  | 5.76M                |
| WL-R210H4-g  | N/A                                         | HSPA+<br>B1/B8            | 2x LAN<br>1x RS232<br>3x I/O | ✓        | ✓    | ✓   | 21M                  | 5.76M                |

### Note:

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