

Industrial Grade high speed 4G/3G Router





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The M2M, IoT Specialist

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About Wlink

Shenzhen Wlink Technology Co., Limited has been a leading telecommunication equipment provider, specializing in the design and manufacture of Industrial 4G / 3G / 2G devices for Internet of Thing and M2M, thanks to the strong management and R&D team who have more than 10 years of experience in wireless M2M field, enable Wlink provide a range of innovative industrial mobile connectivity equipment, OEM Service, packaged products for wireless data, military and government M2M project.

In the past years, Adhere to the principle of high quality product with competitive price, high rate investment on R&D, and reliable after-sales, Wlink has built up mutual trust between the company and its clients from 60 countries, as well as communication channel with the telecom Industrial. We have the aspiration to become the most competitive provider in the cellular and wireless terminal equipment industry and better service to help our most valued customers get into market fast with wireless device and application.

Vision

Professional, Efficiency, Innovation, Quality, Win-Win

Mission

Focus on M2M, create a splendid and easier life for our most valued Customer

Professional Pre-sales and After-sales Service

Wlink technology and developments are based on solid experience in the art of M2M industrial 4G/3G communication. Our experience covers solution that are used worldwide in a large number of successful products in industrial and other M2M fields.

Products Range

*Industrial 4G / 3G Cellular Router

R100 Series: 1xLAN, 1xRS-232

R200 series: 1 x LAN, 1 x WAN

R520 series: 4 x LAN, 1 x WAN, 1 x RS-232

R210 series: 2 x LAN, 1 x RS232, 3 x I/O

R220 series: OpenWrt, 2xLAN, 1xRS-232, 3xI/O

G500 Gigabit Series: 4xGbE, 1xRS-232, 3xI/O,1xUSB, 1xSD slot

G510 Gigabit Series: 4xGbE, 1xRS-232, 3xI/O

*Industrial Serial to IP 4G/3G/2G Modem (called DTU as well)

D80 series: 2G/3G/4G Network optional, RS232/485/TTL interface optional

* Industrial manual dial-up 4G/3G cellular Modem

M300 Series: 3G/4G USB Modem

M100 Series: 3G/4G Serial Modem

*Industrial 4G/3G/2G RTU(Remote Data Unit)

RT600 Series: 3G/4G RTU

RT620 Series: 3G/4G Powerful RTU

*WLINK M2M Management Platform

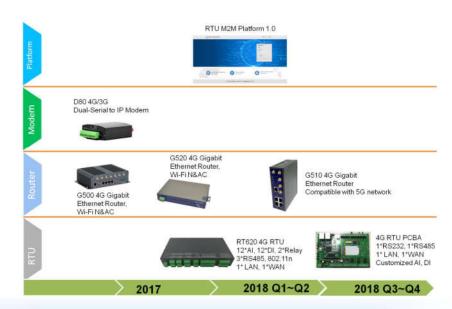
Platform For router

Platform For Wi-Fi hotspot

Platform for RTU

Product Road Map





Industrial 4G/3G WiFi Router



R100 Series

R100 series is the mobile broadband router, small, compact and hardened mechanical design, ideal for the application where space is critical factors, such as retails, Kiosk and telemetry etc.

- Industrial, compact, flexible and low cost
- High data speed via 4G or 3G network
- Strong electromagnetic interference Resistance
- Support Serial to IP data transfer
- Low Cost
- Centralized manageable
- 1x LAN,1x RS-232

R520 Series

R520 is the typical 4G / 3G cellular router that allows you to access and share high-speed mobile internet for distributed enterprise or other Industry. Industrial, secure and high reliable.

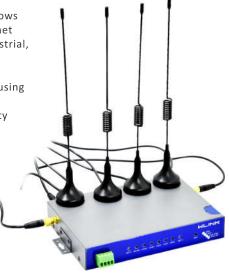
• Industrial robust design and compact metal housing

• High data speed via 4G or 3G network

• MIMO provides better performance and stability

• WAN port support PPPoE, static IP, DHCP client

- Dual SIM redundant optional
- GPS tracking optional
- Centralized manageable
- 4x LAN, 1xWAN/LAN, 1x RS-232



R200 Series

R200 is the industrial grade, secure and reliable 4G/3G router, it designs for professional application such as ATM, Video surveillance.

- Industrial, secure and high reliable
- High data speed via 4G or 3G network
- Secure data transactions with advanced VPN options
- Advanced dynamic routing, security and firewall features
- GPS tracking optional
- Centralized manageable
- 1x LAN, 1xLAN/WAN





R210 Series

R210 Series is the Intelligent 4G / 3G router designed for critical infrastructure, M2M, IoT and industrial applications.

- Industrial robust design, heat endurance and radiation ability
- High data speed via 4G or 3G network
- Ultra security, VPN: PPTP, L2TP, GPE, IPsec VPN
- DIN Rail Mount for Industry
- Redundant Dual SIM, 4G MIMO
- GPS Optional
- Centralized manageable
- 1xLAN, 1xLAN/WAN, 1x RJ45 Console, 3xI/O, 1xRS-232

Industrial 4G/3G WiFi Router

R510 Series

R510 Series is the Intelligent 4G / 3G router designed for critical infrastructure, M2M, IoT and industrial applications.

- Industrial robust design, heat endurance and radiation ability
- High data speed via 4G or 3G network
- Ultra security, VPN: PPTP, L2TP, GPE, IPsec VPN
- DIN Rail Mount for Industrial
- Redundant Dual SIM, 4G MIMO
- GPS Optional
- Centralized manageable
- 4xLAN, 1x RJ45 Console, 3xI/O, 1xRS-232



G500 Gigabit Series

G500 4G / 3G Router is the rugged and powerful Gigabit router, caters for transportation and mobile deployments such as bus WiFi, WiFi on board and other Public transport.

- Industrial robust, heavy-duty metal enclos ure and connectors
- High data speed via 4G or 3G network
- ARM Cortex A9 Dual Core, 800MHz CPU
- Simultaneous Dual-Band 802.11n&ac Wi-Fi
- GPS Optional
- Expansible Storage Optional
- Centralized manageable
- 4x GbE, 1x RJ45 Console, 3x I/O, 1xRS-232, 1x USB 2.0, 1x SD slot





R220 Series

R220 is the 4G / 3G router with OpenWrt OS, OpenWrt provides minimal firmware with support for add-on packages.

- Industrial rugged and compact metal housing
- High data speed via 4G or 3G mobile network
- OpenWrt OS for add-on package
- Atheros AR9344, 533MHz CPU
- Shock and vibration resistant
- 2xLAN, 1x WAN, 1x RS-232



G510 Gigabit Series

G510 is innovative industrial Powerful 4G LTE Router with Gigabit Ethernet, $802.11\ b/g/n/ac$, Hardware can be upgraded to compatible with 4G+/5G.

- Industrial robust, heavy-duty metal enclosure and connectors
- ARM Cortex A7 Core, 900MHz CPU
- Ultra high speed 4G LTE(Cat4/Cat6/Cat11) network
- Simultaneous Dual-Band 802.11n&ac Wi-Fi
- Hardware Compatible with coming 5G
- Expansible Storage Optional
- 4xGbE, 1xRS-232, 3x I/O, 1x USB

Wlink Series Industrial 4G/3G Router Comparison

Wlink Series Industrial 4G/3G Router Comparison

Specfication	R100 Series	R200 Series	R520 Series	R210 Series	
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System Firmware		WL	INK		
Basic Features	Industrial robust design and compact metal housing Strong electromagnetic interference Resistance, Heat endurane and radiation ability Always online, reboot automatically if disconnected to ensure continual connection Built-in watch dog, Multi-link detection LCP/ICMP/flow/heartbeat check, ensure network usability Web/CLI/SSH/Management platform support, easy configure Static route and RIPv2/OSPF dynamic route SNMP network management, NTP support				
Optional Network Type	FDD-LTE/TDD-LTE 4G (Cat 3: DL 100Mbps, UL 50Mbps, Cat4: DL 150Mbps, UL 50Mbps, Cat6: DL 300Mbps, UL 50Mbps) DC-HSPA+ DL 42Mbps / HSPA+ 21Mbps DC-HSPA+ DL 42Mbps / HSPA+ 21Mbps GSM/GPRS/EDGE				
Ethernet Port	10/100M				
WiFi		802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	
		150Mbps	150Mbps	150/300Mbps	
VPN	IPsec, PPTP, L2T P, GRE				
Interface	1x LAN 1x RS-232/RS-485	2x LAN (1x LAN, 1x WAN configurable)	1x WAN/LAN 4x LAN 1x RS-232	1x LAN/1x WAN/LAN 3x I/O 1x RS-232	
SIM Slot	One	One	One / Two	Two	
Dimension (mm)	78.5 x 59 x 23.5	103x 73.5x 25.5	176 x 105 x 25	102 x 100 x 42	
Unit Weight	150g	300g	510g	350g	
Mount Type	Desktop Dall Mount	Desktop Wall Mount	Desktop Wall Mount	Desktop Wall Mount DIN Rail Mount	
Power Supply	7.5 - 32VDC				
Operation Temperature	-30 ~ 70 degree				
Store Temperature	-40∼85 degree				
Relative humidity	<95% (non-condensing)				

R510 Series	G520 Series	G500 Series	G510 Series	R220 Series
		2 444	#	
	WL	INK		OpenWrt OS
Strong electromagnet Always online, reboot Built-in watch dog, M LCP/ICMP/flow/heart Web/CLI/SSH/Manag	beat check, ensure network ement platform support, ea 2/OSPF dynamic route	Heat endurane and radiation densure continual continuation densures and co		N/A
FDD-LTE/TDD-LTE 4G (C: DC-HSPA+ DL 42Mbps / I DC-HSPA+ DL 42Mbps / I GSM/GPRS/EDGE			at6: DL 300Mbps, UL 50Mbps)	10/100M
10/100M	1000M			10/100M
802.11 b/g/n	802.11 b/g/n 802.11 a/c	802.11 b/g/n 802.11 a/c	802.11 b/g/n 802.11 a/c	802.11 b/g/n
150/300Mbps	max 433Mbps	max 433Mbps	max 1166Mbps	300Mbps
		N/A		
4x LAN	1x WAN/LAN	4x LAN, 3x I/O,	4x GbE	2x LAN 1x WAN
3x I/O 1x RS-232	4x LAN 1x RS-232	1x RS-232, 1x USB 1x External SD Slot	3x I/O 1x RS-232	3x I/O 1x RS-232
Two	One	Two	Two	Two
132 x 112 x 44	176 x 105 x 25	220 x 150 x 45	132 x 112 x 44	102 x 100 x 42
400g	510g	600g	400g	350g
Desktop	Desktop	Desktop	Desktop	Desktop
Wall Mount	Wall Mount	Wall Mount	Wall Mount DIN Rail Mount	Wall Mount DIN Rail Mount
DIN Rail Mount	1	7.5 - 3	32VDC	I NIIN VAII INIOUNT
) degree	
			degree	

D80 Industrial Serial to IP 4G/3G/2G Modem

M100 Series Industrial 3G Serial Modem

The rugged D80 series DTU (Data Terminal Unit) is Industrial Serial to IP cellular modem (called as DTU as well) which convert the serial data (RS232/485/422) into IP data and then transfer to data center through GPRS/3G network.

Feature

- Always online: automatically attaches 4G/3G /2G network when powered on, automatically redials when off line and keep line alive
- Standard PPP, TCP/IP and UDP/IP protocol
- Embedded Industrial 4G/3G/EDGE/GPRS cellular module
- Multiple data service centers communications
- Support transparent data transmission
- Parameters configuration and remote management
- Reliable, flexible and easy to deploy

Application:

- Power SCADA
- Oil field
- Coal mineWeather forecast
- Environment protection
- Environment protection
- Water conservancy
- Heating, natural gas
- Petroleum

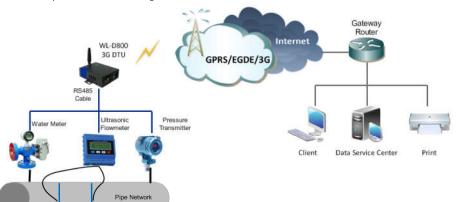
Specification

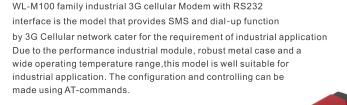
Connector: RS-232/RS-485/RS-422/TTL, DB9 connector

Rate: 300-115200bps

Dimension: 70.5mm x 55.5mm x 22mm (not including antenna)

Operation temperature: -30 ~ +75 degree





Highlight

- Industrial Class Design
- Flexibility and Convenience
- Stability and Reliability
- Support AT command

Specification

Network Type: HSDPAInterface: RS-232

• Radio Power: <24dBm

• Receive Sensibility: <-106dBm

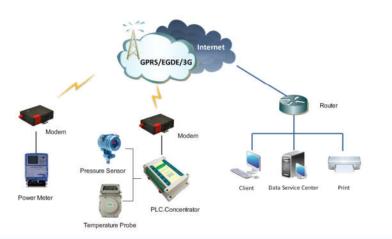
• Operation System: Windows 9x/ME/NT/2000/XP /Win7/ Linux

• Operation Temperature: -30 - 70 degree

• Relative Humidity: 90%

• Dimension: 70.5mm x 55.5mm x 22mm

• Weight(g): 120g



WL-M303 family industrial 4G/3G cellular Modem with USB interface is the modem that provides SMS and dial-up function by mobile Cellular network cater for industrial application requirement.

The configuration and controlling can be made using AT-commands.

The modem which supports up to 100Mbps downlink speed and 50Mbps uplink speed service can utilize the 4G/3G network for convenient and inexpensive data transfer from remote instruments, meters, computers or control systems in packet data.



Highlight

- Industrial Class Design
- Flexibility and Convenience
- . Stability and Reliability
- Support AT command

Specification

• Network Type: FDD-LTE / HSPA+ / WCDMA / UMTS

• Interface: USB 2.0

• Radio Power: <24dBm

• Receive Sensibility: <-106dBm

• Operation System: Windows 9x/ME/NT/2000/XP/Win7/Linux

• Operation Temperature: -30 - 70 degree

Relative Humidity: 90%Dimension: 64*73*26mm

Weight(g): 120g



RTU (Remote Terminal Unit) is a cellular communication device installed at a remote location that collect data, codes the data into a format that is transmittable and transmit the data back to a central station or master, it is been developed especially for data collection and data transmission in IoT / M2M application.

RT600

- 2G/3G/4G/NB-IoT/EMTC
- 8MB Data Storage
- Built in Real-time Clock
- 2xAI, 2xDI, 2xRS485, 1xRS232
- GPS/BD/GNSS optional
- Programmable
- WLINK RTU Management Platform





RT620

- 2G/3G/4G/NB-IoT/EMTC
- 8GB~128GB storage
- · Built in Real-time clock
- 12xAI, 12xDI, 3xRS485, 1xRS232
- Two Replay
- Programmable
- Support WiFi
- GPS/BD/GNSS optional
- WLINK RTU Management Platform

WIINK M2M Management Platform

Features RT600 RT620 12x AI (4~20mA), 2x AI (4~20mA) 16x DI (12XDry connect, 4x Wet connect) IO Port 2x DI (Dry connect) 2x Relay Channels 2x RS485 3x RS485 Serial Port 1x RS232 1x RS232 Storage 8MB 8GB ~ 128GB **Real Time Clock** Support Support Position GPS/BD optional N/A 1x WAN/LAN, 1xLAN **Ethernet Port** N/A Wi-Fi N/A AP Mode Gateway N/A Support **Module Encryption** USB extended N/A 4G/3G/2G Network Type 4G/3G/2G WAN Cable, Fixed IP DHCP, PPPOE Private Private, MQTT + TTJSON Protocol

Private protocol, MQTT + TTJSON

Support

Support

WEB

Private protocol, SMS

RS-232 + RTU Configuration Tool

Support

Support

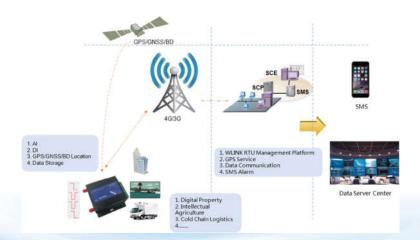
Topology Diagram

Alarm

Programmable

Configuration

Cloud Platform



Apply for R100, R200, R520, R210, R510, G500, G510.

WLINK M2M Management Platform is an industrial-grade centralized management and administration system catering for Wlink R100,R200,R520,R210,R510,G500,G510.

Thanks to the system, it is easy for the operator to monitor, configure, upgrade firmware and manage bulk Wlink router remotely under the web of a private network.

Key Features

- Remote Monitoring
- Remote Configuration
- Remote Firmware Upgrade
- Advertising push
- Max support Number of Devices: 100,000+
- Management: Web

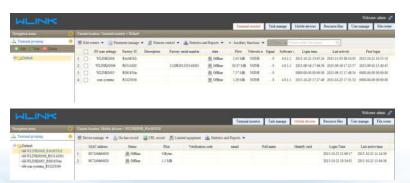


Installation Hardware Requirement

- Pentium IV or above
- 1 GHz CPU (1.5 GHz recommended)
- 1 GB RAM (2 GB recommended)
- 10 GB disk space
- 10/100M Network Interface

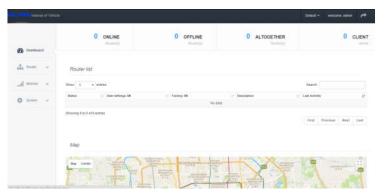
Installation Software Requirement

- O/S: Windows, Linux
- Apache 2.2, MySQL 5.5, PHP 5.4 or above
- Browser: IE 6.0 or above, Chrome



WLINK WiFi Service Management Platform is cloud based device management, monitoring, and reporting tool designed specifically for monitoring and managing the WLINK router which are used in WiFi hotspots on buses, Yachts, Motohomes and Caravans etc.

Additionally, with the GPS-enable Router, the platform provides you real-time location of you fleet.





FLEET MANAGEMENT





YSTEM

Fleet Management

- Locate
- Track
- Monitor



Real-Time Monitoring and Device Management

- Device Dashboard
- · Bandwidth Monitoring
- Client Overview
- Statistics and Report



System

- Advertising
- User Group
- Task Log



WLINK Series Industrial Cellular Router Typical Application Energy Digital Oil Field, Coal Mine, Solar, Smart Grid Utilities Video Surveillance, Smart City, Traffic, Street lighting, Public Safety, 4G Public hotspot, Environment monitoring, LED Advertisement Distributing 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 Bus WiFi, WiFi on Board, Vehicle video surveillance, Fleet tracking and management, Bus Advertising

ATM/POS machines

With Wlink industrial class 4G/3G Router, enables ATM/POS transaction processing with industrial standard encryption over mobile cellular network for fast and easy ATM installation, operation and relocation.



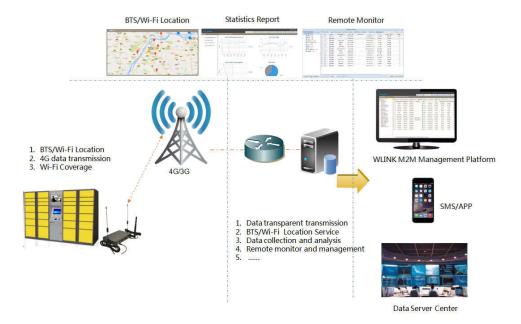






4G Router in Smart Parcel Lockers IoT Solution

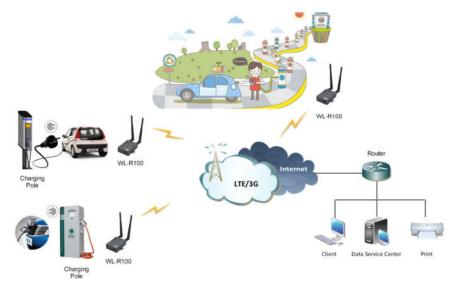
The main role for WLINK 4G router in Smart Locker application system is provide reliable mobile network connection. Small partial of the whole system, however, so important it is. Using WLINK 4G router, the package lockers can work at unmanned delivery destination. Each locker is equipped with a 4G router that provides connectivity and intelligence to permit/forbid access to lockers based on one-time-used code, carries backhaul traffic to the lockers operation center.





Charging Piles Monitoring

WLINK 4G/3G router as a reliable network access to establish a reliable and stable network connection between charging piles and control center. It's easy to monitor each charging pile running status and guarantee charging pile safe and stable operation. Furthermore, the control center can also remotely manage charging pile service such as user authentication, user information transmission and payment procedures via 4G/3G network.





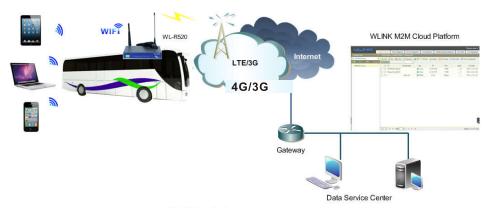


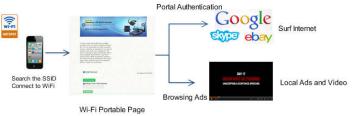


Application Case

For WiFi Bus / on Board Solution

Wlink cellular router provides passengers a meaningful on board Wi-Fi hotspot service to check email, surf the internet and local entertainment during their journey.





The WiFi bus solution with WLINK cellular router is reliable, manageable, simple to install and scalable, it is built to offer the greatest internet access in bus at the lowest cost.

The stable Wi - Fi service works like any fixed hotspot in hotel, coffee shop or airport.



















