

# G92 Multiple Mode 4G Broadband Router Spec

## Introduction

G92 Multiple Mode 4G Broadband Router is a kind of internet of things wireless communication router. It uses 5 modes 13 bands(TDD/TDSdma/FDD/WCDMA/GSM) or 7 modes 15 bands(TDD/TDSdma/FDD/WCDMA/GSM/EVDO/CDMA 1X) mobile broadband network, to provide convenient and high speed network transmission function.

This series of product uses industrial grade MIPS Dual Core communication processor, and embedded real-time operation system as software supporting platform. It provides safe, high speed, stable 3G/4G wireless network, and provides 4 gigabit Ethernet, RS-485/232 and 2.4G/5G WIFI interface.

It can be used in finance, postal, smart power grids, smart transportation, environment monitor, fire protection monitor, security, water conservancy, public safety, advertising release, industrial control, earth quake monitor, meteorological watch, instrument monitor.etc



## Features

### Industrial design

- Use high performance industrial wireless module
- Use high performance industrial MIPS Dual Core processor
- Support low power consumption, include sleep mode, timing online and offline mode, timing switch on and off mode
- Use plate metal CRS shell, with good heat dissipation
- Power supply : +7.5V~32V DC(48V DC extendable)
- Degree of protection: IP34(can be extended to IP51)

### Network characteristic

- Port flow detection
- Link real time monitoring
- Multiple VPN protocol(PPTP, L2TP, IPSec, GRE, VPN)
- Support serial port DTU function
- Support dial as required(audio, SMS, data trigger)
- Support UPnP

### Stability

- Soft and hardware watchdog and multilevel link detection, with the capability of fault automatic diagnosis and automatic recovery, to ensure device working on stable and safe way
- Multiple-mechanisms of equipment self-checking, to ensure link unimpeded and alarming
- ESD protection for each port, to prevent static shock
- Wireless network signal indicator light(NET)

### Software

- HOMTECS OS
- OEM OS
- OpenWRT OS

### Remote management

- Remote parameter configuration
- Remote parameter backup
- Remote reboot and log query
- Remote upgrading
- Remote online monitoring

**Functions**

- Support 4G(FDD and TDD) LTE network, down compatible for all kinds of 3G network
- Support 5x gigabit Ethernet, provide RS-232 / RS-485
- Support WIFI(IEEE802.11n / 802.11ac)
- Support wire and wireless backup
- Support hardware WDT, provide anti-log off mechanism to ensure data terminal online forever
- Support PPTP, L2TP, GRE etc. multiple VPN
- Support SNMP management protocol
- Support Wi-Fi forced AD pushing function
- Support DHCP, DDNS, firewall, NAT and DMZ etc.
- Support ICMP, TCP, UDP, Telnet, FTP, HTTP, HTTPS etc.
- Industrial SIM/UIM Card design, support hot plugging

**Extended functions**

- Single module dual SIM 【optional】
- Dual module dual SIM 【optional】
- GPS/Beidou orientation 【optional】
- USB storage extension, 8GB-256GB 【optional】
- TF Card, max 128G 【optional】

## Specification

**Wireless**

Wireless module:	Industrial grade
Bands:	FDD-LTE (Band1 / 2 / 3 / 4 / 5 / 7 / 8 / 20) / (Band2 / 4 / 5 / 13 / 17 / 25 / 26) TDD-LTE (Band38 / 39 / 40 / 41), TD-Scdma (Band34 / 39) HSPA (900 / 2100MHz) / GSM (850 / 900 / 1800 / 1900MHz) EV-DO&CDMA 1X (800MHz)
Theory bandwidth:	FDD: 100 / 50Mbps , TDD:61 / 18Mbps
Transmitted power:	<24dBm
Consumption:	data<320mA/12V; idle <180mA/12V
Receive sensitivity:	<-109dBm

**WIFI**

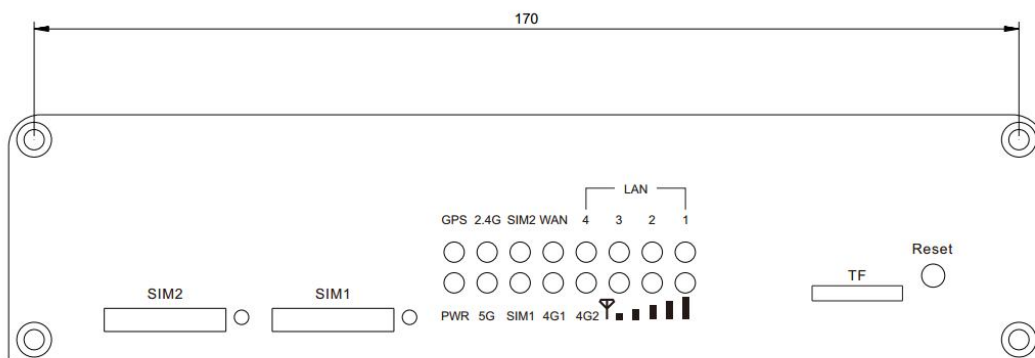
Bandwidth:	IEEE802.11n/802.11ac standard, 2.4G 300Mbps / 5G 867Mbps 【optional】
Security encryption:	WEP, WPA, WPA2, WPS 【optional】
Transmitted power:	16-17dBm(11g), 18-20dBm(11b), 15dBm (11n ), 17-18dBm(11ac)
Receive sensitivity:	<-72dBm@54Mbps

**Interface**

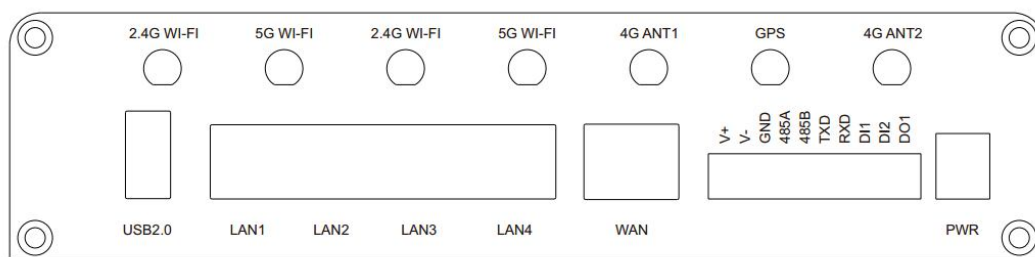
LAN/WAN:	5x Gigabit Ethernet(RJ45 port), self-adaption MDI/MDIX, built-in electromagnetic isolation protection
Industrial interface:	1x RS232/RS485 port, apply to the collecting equipment which comes with RS485/232 interface
Indicator light:	5 x “LAN”, “2.4G WLAN”, “5G WLAN”, “4G1”, “4G2”, “SIM1”, “SIM2”, 3 x Signal strength, “SYS”, “GPS”
Antenna interface:	7x SMA interface(4G ANT1; 2.4G Wi-Fi x 2; 5.8G Wi-Fi x 2; GPS/BD; 4G ANT2 ) , 50ohm
SIM/UIM interface:	Industrial SIM/UIM card design, 1.8V/3V automatic detection
TF Card interface:	TF Card, max 128G, used for external data storage or system upgrading
Power interface:	12V~32V, terminals interface, no-polarity
Reset:	Parameters can be restored to the factory
USB interface:	USB2.0, 8-256G, used for external data storage or system upgrading
GPIO interface:	2x GPIO input signal detection and 1x GPIO output instruction

**G92 interface graph**

Front:



Back:



**Power supply**

- Standard power: DC 12V/2A, non-polarity

**Appearance**

- Shell: aluminum profiles
- Dimension: 220×150×45mm
- Weight: about 600g

**Others**

- CPU: MIPS Dual Core – 880MHz
- Flash/RAM: 16MB /256MB DDR3
- NAND Flash: 512MB
- Working temperature: -30~+75°C
- Storage temperature: -40~+85°C
- Relative humidity: < 95% non condensing

**Technical graph**

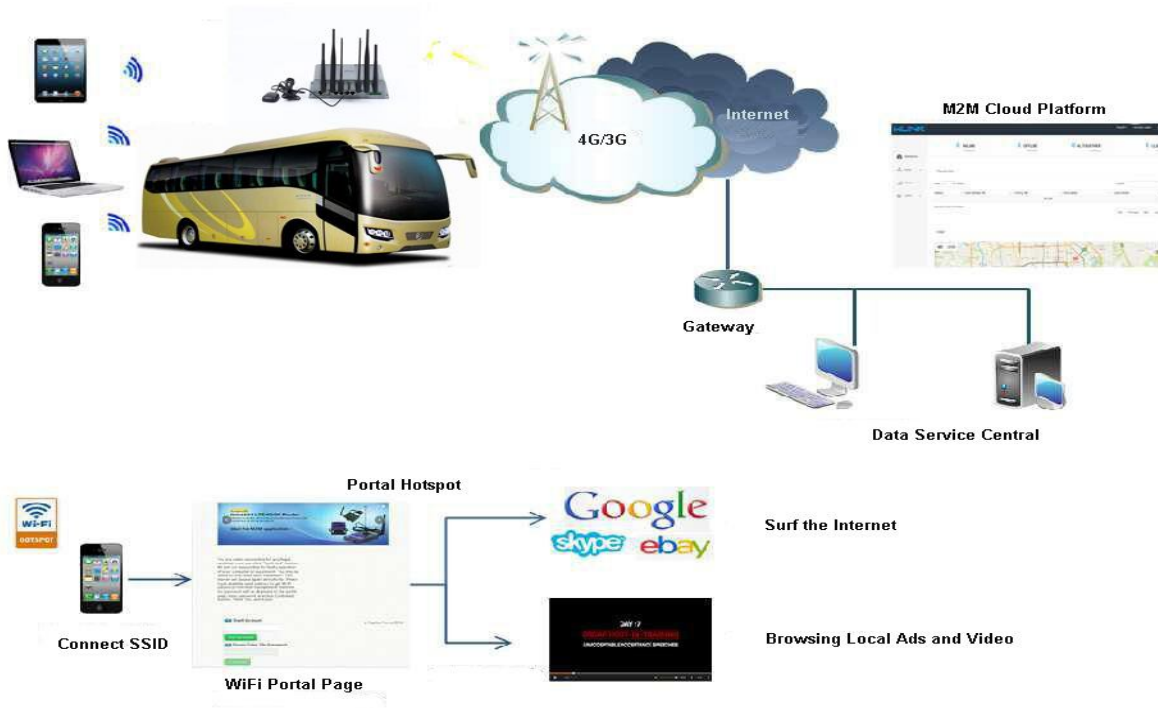


**Add: dual module dual SIM version**

Standard G92 router support 5 modes 13 bands and dual module dual SIM extendable. It is suitable for the environment operated by different operators with different network type, and double-link or double SIM can work at the same time.

5 modes: TDD-LTE / FDD-LTE / TD-Scdma / WCDMA / GSM

13 bands: TDD(Band38/39/40/41), FDD(Band1/3/5), TD-Scdma(Band34/39), WCDMA(Band1/5) and GSM Band4


**Product list**

<b>G92</b>	Dual module+dual SIM	WIFI	WIFI 2.4G+5G	GPS
WAN	○	○	○	○
LAN1-4	●	●	●	●
802.11n Wi-Fi	○	○	●	●
802.11ac Wi-Fi	○	○	●	●
HSPA+	●	●	●	●
EV-DO	○	○	○	○
TD-Scdma	○	○	○	○
FDD-LTE	●	●	●	●
TDD-LTE	●	●	●	●
GPS	○	○	○	●
RS232	●	●	●	●
RS485	○	○	○	○
Single Card	○	○	○	○
Double Card	●	●	●	●
Storage (8GB~256GB)	○	○	○	○
<b>Refer NO.</b>	<b>G92-FA2T-D</b>	<b>G92-FA2T-DW</b>	<b>G92-FA2T-DW-5</b>	<b>G92-FA2T-DWG-5</b>