

Data Sheet for G2Wifi III_M Wireless Router with WAN and built-in 3G / 4G LTE modem

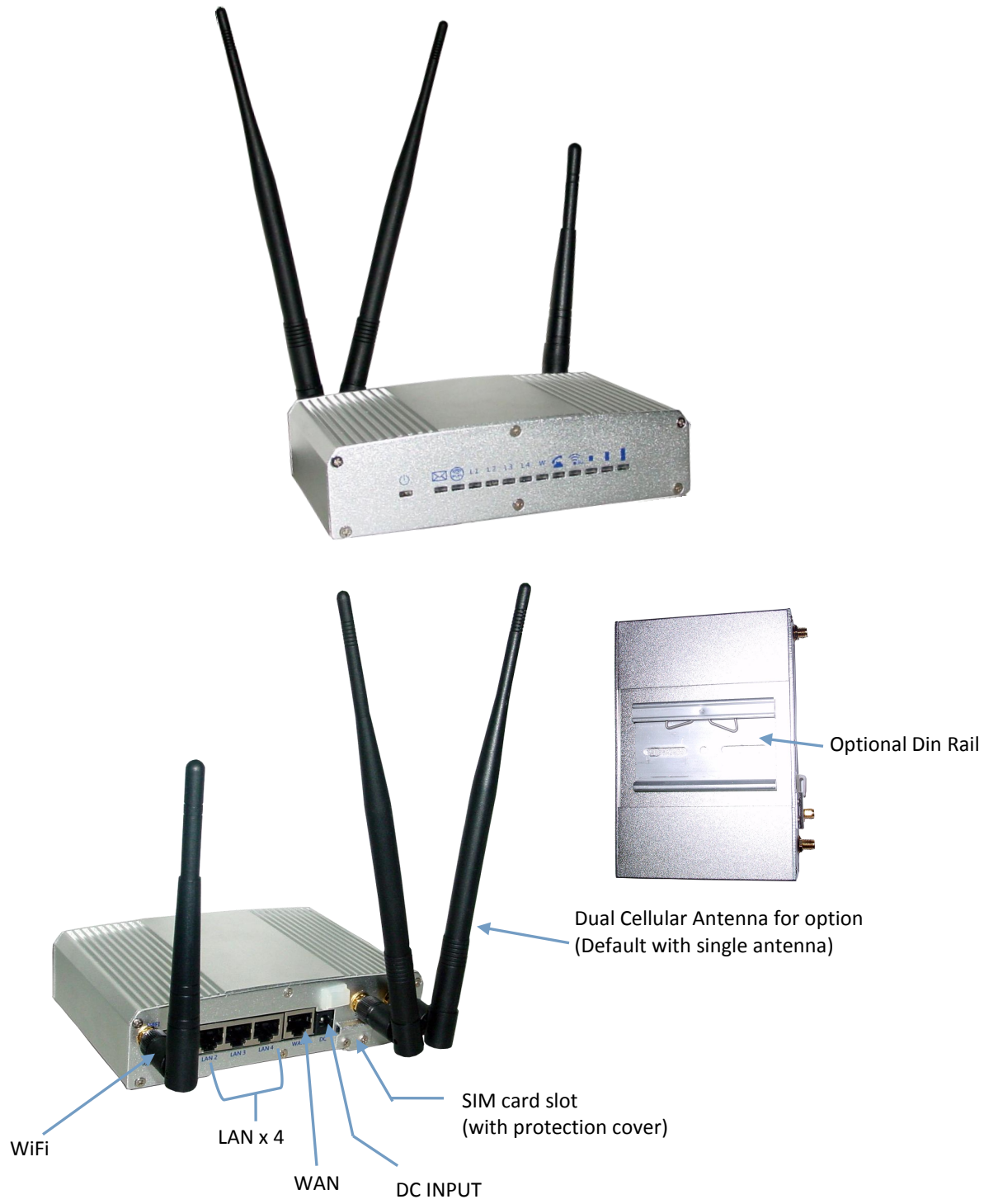


Figure 1: Interfaces of G2Wifi III_M with internal 3G / 4G LTE modem

General Features

- Built-in 3G / 4G LTE modem
- Internet access over ether WAN (support DHCP, Static IP, PPPoE) and/or internal 3G / 4G LTE modem
- Failover from Ethernet WAN to HSPA+ or Load Balance among WAN and 3G / 4G LTE
- Wi-Fi access point (Built-in internal antenna , optional external antenna)
- Built-in TR-069 for Management
- VPN pass-through/ VPN client

Wi-Fi Specification

Output Power (Wi-Fi)

- 802.11n:11 dbm
- 802.11g:13 dbm
- 802.11b:15 dbm

Sensitivity (Wi-Fi):

- 802.11n : -68 dBm
- 802.11g : -68 dBm
- 802.11b : -85 dBm

Wi-Fi Frequencies

- 2,4 - 2,462 GHz, CCK / OFDM (Modulation Range Coverage)

Wi-Fi Distances

- Indoor: approximately 30 to 50 meters
- Outdoor: 80 to 100 meters

Compatibility

- IEEE 802.3 10 Base-T Ethernet
- IEEE 802.3u 100 Base-TX Fast Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.11 b/g/n Wireless

Cellular Specification

For model : g2wifi_III_M_20E

(3G HSPA+ , availabel for Asia / Europe / Latin America)

- WCDMA/UMTS : 2100/1900/850(900)MHz
- EDGE/GPRS/GSM: 1900/1800/900/850MHz
- Output power :
 - Class 3 (24dBm +1/-3dB) for UMTS
 - Class E2 (27dBm ±3dB) for EDGE 850/900MHz
 - Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz
 - Class 4 (33dBm ±2dB) for GSM 850/900MHz
 - Class 1 (30dBm ±2dB) for GSM 1800/1900MHz
- HSPA+ up to 14.4Mbps DL , 5.76Mbps
- UMTS up to 384.DL and UL
- EDGE 236.8kbps DL/236.8kbps UL
- GPRS 85.6kbps DL/86.6kbps UL

For model : g2wifi_III_M_25E

(4G LTE , available for Asia / Europe / Latin America)

- LTE-FDD : Band- 1,3,5,7,8,20
- LTE-TDD : Band- 38,40,41
- WCDMA/UMTS : 2100/1900/850(900)MHz
- EDGE/GPRS/GSM: 1900/1800/900/850MHz
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
 - Class 3 (23dBm±2dB) for LTE TDD
 - Class 3 (24dBm +1/-3dB) for TD-SCDMA
 - Class 3 (24dBm +1/-3dB) for UMTS
 - Class E2 (27dBm ±3dB) for EDGE 850/900MHz
 - Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz
 - Class 4 (33dBm ±2dB) for GSM 850/900MHz
 - Class 1 (30dBm ±2dB) for GSM 1800/1900MHz

- LTE-FDD up to 150 Mbps DL, 50 Mbps UL
- LTE-TDD up to 130 Mbps DL, 35 Mbps UL
- DC-HSPA+ up to 42Mbps DL , 5.76Mbps
- UMTS up to 384.DL and UL
- EDGE 236.8kbps DL/236.8kbps UL
- GPRS 85.6kbps DL/86.6kbps UL
- LTE version 3GPP E-UTRA Release 10
- Bandwidth 1.4/3/5/10/20 MHz

For model : g2wifi_III_M_25AU

(4G LTE , available for Taiwan / Australia / South America)

- LTE-FDD : Band- 1,2,3,4,5,7,8,28
- LTE-TDD : Band- 40
- WCDMA/UMTS : Band- 1,2,5,8
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
 - Class 3 (23dBm±2dB) for LTE TDD
 - Class 3 (24dBm +1/-3dB) for TD-SCDMA
 - Class 3 (24dBm +1/-3dB) for UMTS
 - Class E2 (27dBm ±3dB) for EDGE 850/900MHz
 - Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz
 - Class 4 (33dBm ±2dB) for GSM 850/900MHz
 - Class 1 (30dBm ±2dB) for GSM 1800/1900MHz

- LTE-FDD up to 150 Mbps DL, 50 Mbps UL
- LTE-TDD up to 130 Mbps DL, 35 Mbps UL
- DC-HSPA+ up to 42Mbps DL , 5.76Mbps
- UMTS up to 384.DL and UL
- EDGE 236.8kbps DL/236.8kbps UL
- GPRS 85.6kbps DL/86.6kbps UL
- LTE version 3GPP E-UTRA Release 10
- Bandwidth 1.4/3/5/10/20 MHz

For model : g2wifi_III_M_25J

(4G LTE , available for Japan)

- LTE-FDD : Band- 1,3,8,18,19,26
- LTE TDD : Band- 41
- WCDMA: Band- 1,6,8,19
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
- LTE-FDD up to 150 Mbps DL, 50 Mbps UL

For model : g2wifi_III_M_25A

(4G LTE , available for AT&T, USA)

- LTE-FDD : Band- 2,4,12
- WCDMA: Band- 2,4,5
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
- LTE-FDD up to 150 Mbps DL, 50 Mbps UL
- LTE version 3GPP E-UTRA Release 10

For model : g2wifi_III_M_25V

(4G LTE , available for Verizon, USA)

- LTE-FDD : Band- 4,13
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
- LTE-FDD up to 150 Mbps DL, 50 Mbps UL
- LTE version 3GPP E-UTRA Release 10
- Bandwidth 1.4/3/5/10/20 MHz

Mechanical Specifications

- Dimension (L x W x H): 110 x 155 x 40 mm
- Weigh: 450g
- Operating Temperature : -10°C to +55°C
- Storage Temperature : -20°C ~ to +60°C
- Storage Humidity : 5° to 85% of relative humidity (with no condensation)

Connection Interfaces

- WAN Ethernet Interface 10/100 Base-TX, connector RJ-45
- LAN x4 Ethernet Interface 10/100 Base-TX, connector RJ-45
- SMA Connector for **external 5 bands 3G antenna** (50 Ohm - option for **internal 5 bands 3G antenna**)
([default with single antenna , dual antenna for option](#))
- wifi antenna
- Internal SIM Card Reader: Chip SIM CR 3.0V, 1.8V

Router Specifications

Firewall

- IP and MAC Filter
- Virtual Server and DMZ
- NAT (Network Address Translation)

VPN

- PPTP , L2TP pass-through
- PPTP, L2TP client

Communication Protocols

- IP, NAT, DHCP, PAP, CHAP, PPP, TCP, UDP, HHTP, NTP, TR-069
(other protocols upon request)

Power Specifications

AC-DC Power Adapter

- Input: 90 to 240 VAC / 0.3A
- Frequency: 50/60 Hz
- Output: 8 VDC / 1 A

DC Input

- Input Voltage Range: 6 to 12 VDC
- Input Power: 12 W
- Input Connector: J4 (internal positive)

*Specifications are subject to change without notice.