M4 Mini - Broadband Bonded Cellular Router
User Manual

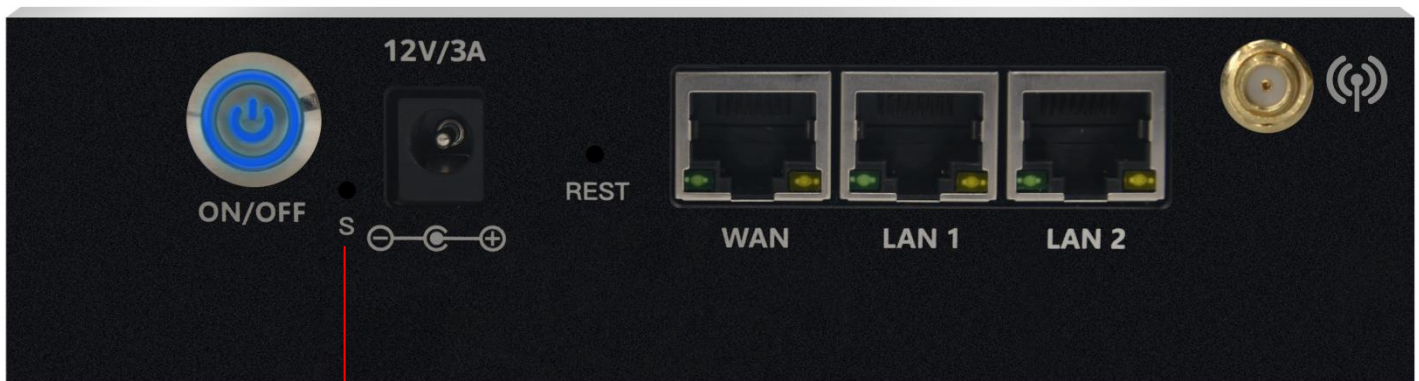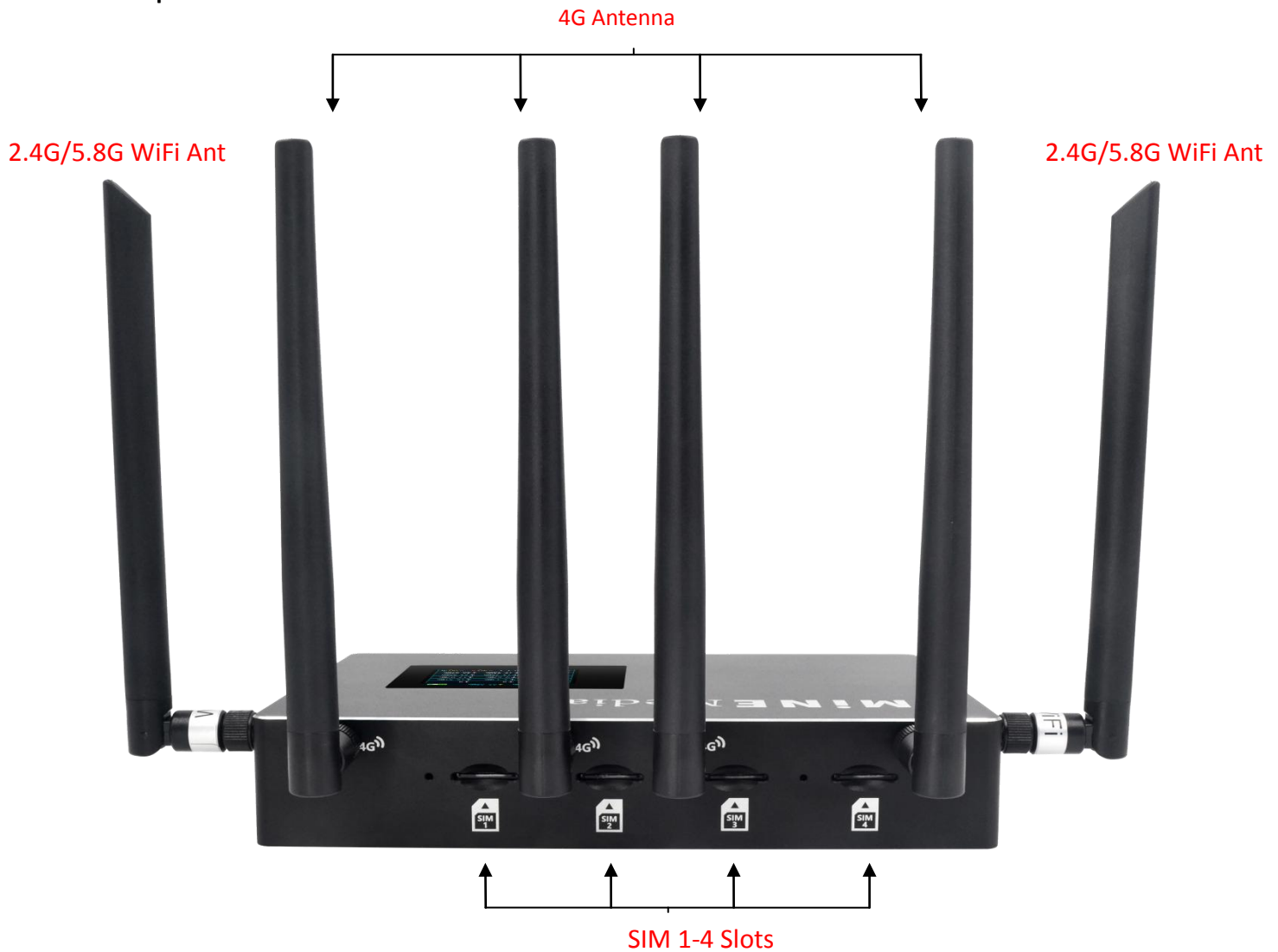# Content

1. Introduction

M4 Mini - Multi-card bonding router is a 4G Router Supporting multi-channel aggregated network. It is powered by standard adapter DC 12V/3A and has built-in battery capacity of 9000mah to have longer working duration. One WAN port is used for aggregation. Two LAN ports (LAN 1 and LAN 2) are exported to computers or network devices. In addition, it can provide 2.4 G and 5.8G band wireless network for more devices to meet the more needs of users.

The multi-card aggregation router has four 4G modules, which supports simultaneous insertion of SIM cards from different operators. The bandwidth of four Internet links can be aggregated through cloud servers. It can also be used by single card without using cloud servers, but it can only run single card traffic. It improves the bandwidth of upstream and downstream network in mobile environment and reduces mobility, blind zone of network signal to improve network availability.

2. Specification

Product	
Model #	M4 Mini
Cellular Network Mode	TDD-LTE，FDD-LTE，DC-HSPA+/HSPA+/HSPA/UMTS，TD-SCDMA
Operator	Depends on customer's request
LAN	1000mb/s
WAN	1000mb/s
WiFi Frequency	2.4GHz, 5.8GHz
LCD Screen	Indicate cellular speed
Interfaces	4xPCI-E, 3xRJ45, 4xSIM
Wi-Fi	
WIFI	802.11b/g/n 300M bps
WIFI Range	30Meters
Power	
Voltage & Current	DC12V 3A
Power Consumption	5W
Lithium Battery Capacity	8.4V 9000mah
Working Duration	5-6h
Other Spec	
Management	web
Net Weight	1.2kg
Product Dimension	240*145*30mm
Working Temperature	-10°C~40°C
Storage Temperature	-40°C~70°C

3. Panel Description

4G Antenna

2.4G/5.8G WiFi Ant

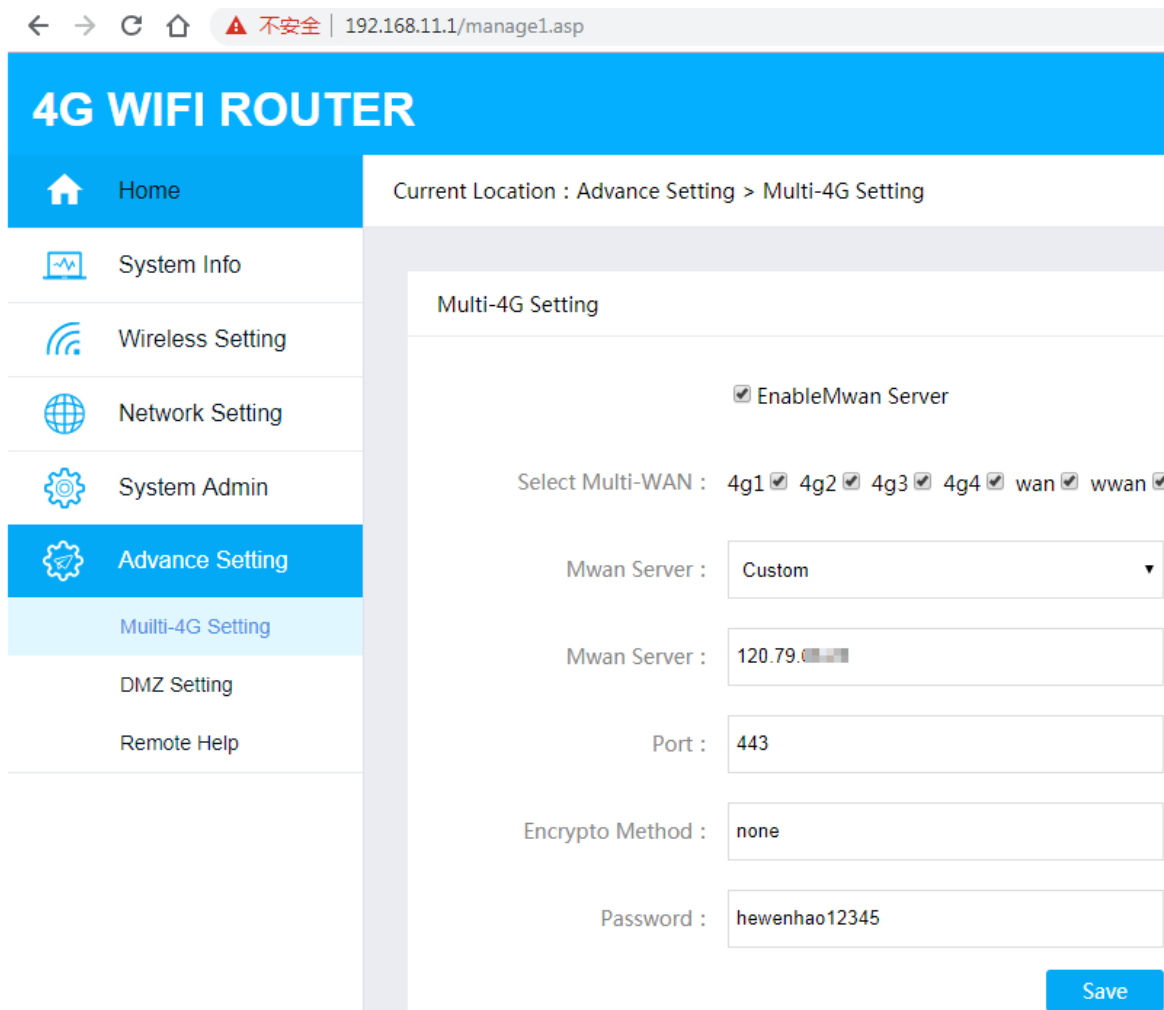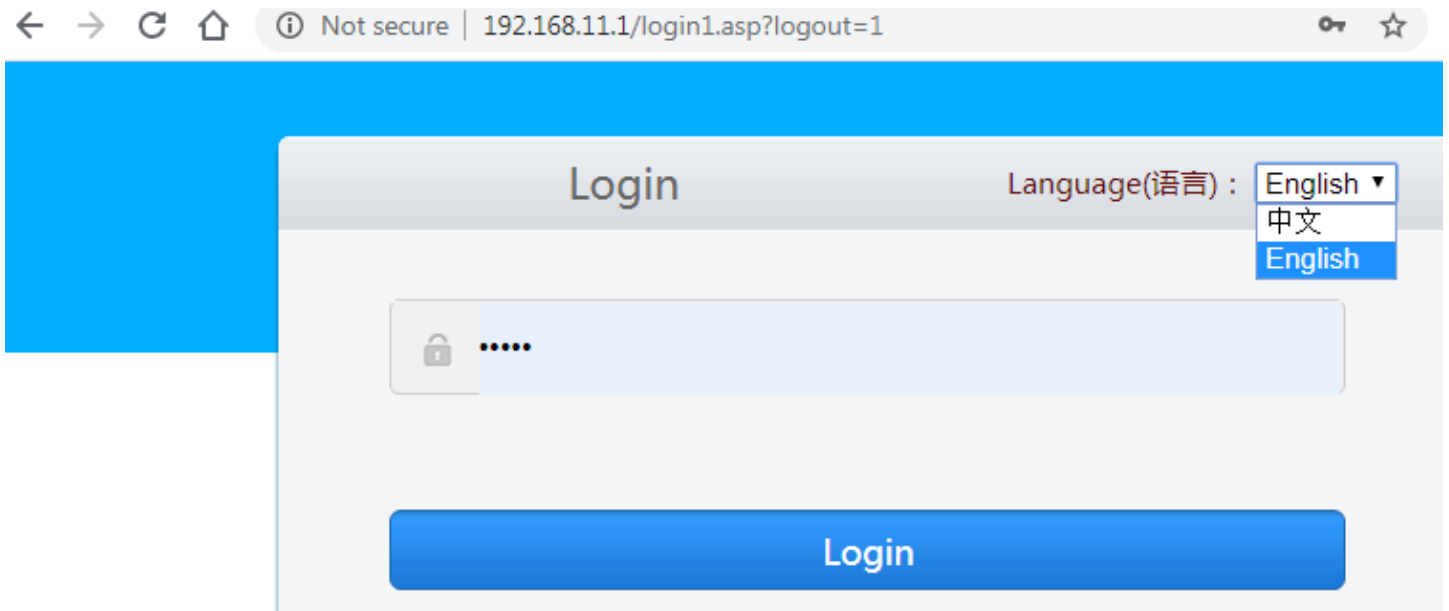2.4G/5.8G WiFi Ant

SIM 1-4 Slots

Charge Indicator

Note:

a. REST - The aggregate router reset key is inserted with a pin that distributes the SIM card. After holding down for about 45 seconds, the aggregate router can be released to factory status.

b. WAN - External internet insert this port, bonding router can work and bonding WAN and 4G together.

c. LAN 1 / LAN 2 - This network port connects to the computer and can be used to access the Internet.

4. Aggregate Router Practical Tutorial

4.1 How to login the M4 Mini control panel?

a. Ensure the LAN1 or LAN2 port of M4 Mini connect with your pc directly or via a switch, keep your PC IP with the M4 Mini in same LAN, that is your PC IP should be 192.168.11.*, such as 192.168.11.5 or enabled DHCP for your device.

b. Open http://192.168.11.1 by browser, password is admin, you can choose the English UI.

Or Connect to the M4 Mini AP and login - M4Pro-2.4G-xxx or M4Pro-5G-xxxx, default password is 12345678

Here, **Mwan Server & Port keep same as your bonding server's,** others information keeps same as above screenshot.

4.2 When all settled, the SIM card still can't get network, maybe you need to setup the APN per your SIM provider, By click the System Info-4G/WAN Status, then click the refresh button to check all the 4G modem info.

🏠 Home	
〰️ System Info	**Current Location: Network Setting > 4G Setting**
📶 Wireless Setting	
🌐 **Network Setting**	**4G1 Setting**
WAN Setting	IP Address: `4G modem dail failure, not get IP !`
LAN Setting	Dail Mode: `Gobinet` ▼
DHCP Setting	AT command device: `/dev/ttyUSB2` ▼
4G1 Setting	APN Setting: `3gnet`
4G2 Setting	Dail Number: `*99#`
4G3 Setting	Auth Mode: `None` ▼
4G4 Setting	User Name: `Optional requiried`
VPN Setting	Password: `Optional requiried`
⚙️ System Admin	PIN Code: `Optional requiried`
🛠️ Advance Setting	**Save**

WAN

4G Modem Info

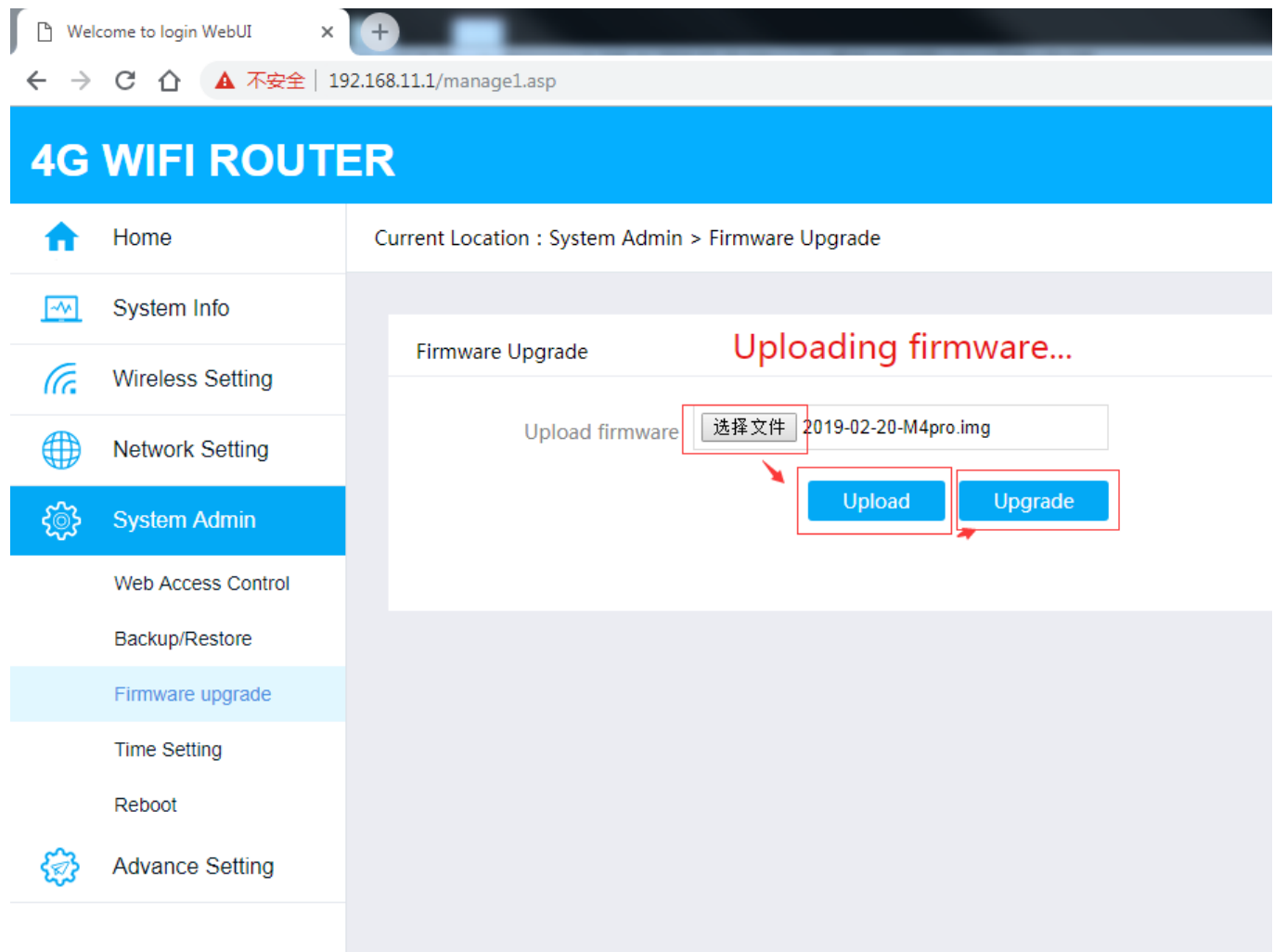|	Modem 1	Modem 2	Modem 3	Modem 4
SIM	Ready	Ready	Ready	Ready
Operator	CHN-UNICOM	CHN-TELECOM	CHN-UNICOM	CHN-UNICOM
Signal Strength	100%	100%	100%	96%
IP	10.6.203.104	10.32.138.28	10.237.180.223	Not connect!
Used	0KB	1KB	5KB	0KB
Model	SLM750-T_C03_2.0.5_EQ102	SLM750-T_C03_2.0.5_EQ102	SLM750-T_C03_2.0.5_EQ102	SLM750-T_C03_2.0.5_EQ102
IMEI	863879042721848	863879042725153	863879042725849	863879042721806
IMSI	46017064981406	46011505294322	46001479429 6046	46009868580 5977
ICCID	898601198014297340 56	898603207475505699 33	898601198014297052 70	898601188423005194

Refresh

4.3 Other Settings

    a.   Modify IP of aggregate router: [Network Settings] - [LAN Settings] - Modify [IP Address] - [Save]

    b.   Modify WiFi settings: [Wireless Setting] - [2.4 G Basic Settings] - Check [Open Wireless] - Modify WiFi name [SSID] - Modify [Password] - [Save]

        Note: 5.8G/WiFi settings are the same as 2.4G/WiFi settings.

    c.   You can do speed test by https://fast.com/, https://www.speedtest.net, etc. The flow of the display screen is not real-time traffic, only for reference to the working status of aggregated routers.

5. Firmware Upgrade

After login the M4 Mini management panel,

Click System Admin - Firmware Upgrade, Selection File, Upload & Upgrade, then system will automatically upgrade and restart the aggregate router, and the whole process of upgrade will wait about 3 minutes. To get latest firmware, please download from our website, http://www.minemedia.tv/downloads/

6. Remote assistance

Note: In the case of abnormal equipment, remote assistance can be turned on to allow engineers to view and solve problems.

7. Bonding server building

Please read here to get the guide or contact us. http://www.minemedia.tv/downloads/