# M4 Mini - Broadband Bonded Cellular Router User Manual



# Content

1. Introduction	3
2. Specification	.3
3. Panel Description	4
4. Aggregate Router Practical Tutorial	5
5. Firmware Upgrade	7
6. Remote assistance	8

#### 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





Note:

#### **Charge Indicator**

- 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 <u>http://192.168.11.1</u> 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

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			Login	Language(混	音): English 中文 English	
			<b></b>			
				Login		
$\leftarrow \   \rightarrow$	С 企 🔺 不	安全 192.16	8.11.1/manage1.asp			
4G		OUTER	2			
<b>f</b>	Home	с	urrent Location : Advance Settin	g > Multi-4G Setting		
	System Info Wireless Settin		Multi-4G Setting			
₩G	Network Setting			✓ EnableMwan Server		
<b>ş</b>	System Admin		Select Multi-WAN :	4g1 € 4g2 € 4g3 € 4g4 € wan € wwan €		
(2)	Advance Settin	g	Mwan Server :	Custom •		
	Muilti-4G Setting		Mwan Server :	120.79.		
	DMZ Setting Remote Help		Port :	443		
			Encrypto Method :	none		
			Password :	hewenhao12345		
				Suve		

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

#### Broadband Cellular Bonding Router

Save

## 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.

me	Current Location: Network Setting > 4G Setting			
stem Info				
reless Setting	4G1	Setting		
twork Setting		IP Ac	ddress:	4G modem dail failure, not get IP !
AN Setting		Dail	Mode:	Gobinet •
N Setting		AT command	device:	/dev/ttyUSB2 ▼
ICP Setting		Ar command (	device.	106V/100302
1 Setting		APN S	etting:	3gnet
2 Setting		D-UN		*99#
3 Setting		Dall NU	umber:	-33#
4 Setting		Auth	Mode:	None •
N Setting		llees		Outline la contribut
stem Admin		User	Name:	Optional requiried
vance Setting		Pas	sword:	Optional requiried
		PIN	Code:	Optional requiried
	stem Info reless Setting twork Setting N Setting CP Setting 1 Setting 2 Setting 3 Setting 4 Setting N Setting N Setting stem Admin	stem Info reless Setting twork Setting N Setting CP Setting 1 Setting 2 Setting 3 Setting 4 Setting N Setting stem Admin	stem Info reless Setting twork Setting N Setting CP Setting 1 Setting 2 Setting 3 Setting 4 Setting 4 Setting wance Setting	stem Info reless Setting twork Setting N Setting N Setting CP Setting 1 Setting 2 Setting 3 Setting 4 Setting N Setting User Name: Stem Admin

System InfoClients InfoStatistics4G/WAN Status(4G/WAN Status(System Admin(Advance Setting

4G Modem Info

WAN

	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	ОКВ	1KB	5KB	ОКВ
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	460017064981406	460115055294322	460014794296046	460098685805977
ICCID	89860119801429734056	89860320747550569933	89860119801429705270	8986011884230051943

Refresh

#### 4.3 Other Settings

- a. Modify IP of aggregate router: [Network Settings] [LAN Settings] Modify [IP Address] [Save]
- 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 <u>https://fast.com/</u>, <u>https://www.speedtest.net</u>, etc. The flow of the display screen is not real-time traffic, only f**or** 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, <u>http://www.minemedia.tv/downloads/</u>

🗋 Wel	come to login WebUI X	+		
← → C ☆ ▲ 不安全   192.168.11.1/manage1.asp				
4G	WIFI ROUTI	ER		
•	Home	Current Location : System Admin > Firmware Upgrade		
~/	System Info			
(G	Wireless Setting	Firmware Upgrade Uploading firmware		
	Network Setting	Upload firmware 选择文件 2019-02-20-M4pro.img		
ţ	System Admin	Upload Upgrade		
	Web Access Control			
	Backup/Restore			
	Firmware upgrade			
	Time Setting			
	Reboot			
₹\$}	Advance Setting			

#### 6. Remote assistance

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

$\leftrightarrow$ $\rightarrow$	C O Not Secure   19	2.168.11.1/manage1.asp	
4G	WIFI ROUTI	ER	
•	Home	Current Location: Advance Setting > Remote Help	
~^^	System Info		
(a	Wireless Setting	Remote Help	
	Network Setting	✓ Enable Remote Help	
<u>نې</u>	System Admin	Save	
£	Advance Setting		
	Muilti-4G Setting		
	DMZ Setting		
	Remote Help		

#### 7. Bonding server building

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