



MINE-M4 Bonding Router

User Manual



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1. Basic information of products

Power supply voltage: DC 12 v/3 a.

Capacity of battery: 9600 mAh

Bonding Router Default IP: 192.168.11.1 Default Password: Administrator

Note: If there are large-scale live broadcast and other network environments, please fully charge and test the M4 bonding router in advance.

2. Product Introduction

- MINE-M4 is a multi-card bonding router, which can support multi-channel aggregation Internet. It is powered by a standard adapter DC 12 v/3 a, and its built-in battery capacity is 9600 mah, which can make the bonding router use 5-6 hours. The external network input of the unidirectional WAN port is used for aggregation, and the bidirectional LAN ports (LAN 1 and LAN 2) are output to computers or network devices. In addition, it can also provide 2.4 g and 5.8 g band wireless networks, which can provide networks for more devices and meet the needs of more users.
- MINE-M4 bonding router has built-in four 4G sim modules, which support the SIM cards of different operators to be mixed at the same time. The cloud server aggregates the bandwidth of four Internet links, improves the uplink and downlink network bandwidth in the mobile environment, reducing the blind spots of mobile network signals, and improves network availability. It can also be used by a single card, without going through the cloud server, but can only run single card traffic.



3. Product Interface Description



- 1. Antenna 1: 2.4 g and 5.8 G WiFi of the MINE-M4 bonding router share these two antennas.
- 2. Antenna 2: it represents the 4G antenna of SIM card 1.
- 3. Antenna 3: it represents the 4G antenna of SIM card 2.
- 4. Antenna 4: it represents the 4G antenna of SIM card 3.
- 5. Antenna 5:it represents the 4G antenna of SIM card 4.
- 6. Antenna 6: 2.4 g and 5.8 G WiFi of the MINE-M4 router share these two antennas.
- 7. Display screen 7: It can display important information such as the working state of the MINE-M4 bonding router.
- 8. SIM card slot 1
- 9. SIM card slot 2
- 10. SIM card slot 3
- 11. SIM card slot 4

Live Bonding Video Switcher| Bonding Encoder| Video Encoder Bonding Router| Network Bonding Streaming Media Distribution System



Note: SIM 1-4 card slots are plugged in 4g sim cards, if dial-up Internet access is normal, there will be an indicator light flashing at the small hole beside the SIM card slot.



- 12. On/off: the on/off key of the MINE-M4 bonding router
- 13. S: charging indicator, plug-in DC 12V/3A adapter. When the power supply is not fully charged, the indicator will always be on, and when it is fully charged, the indicator will go out.
- 14. Power supply: the latest version supports DC 12V/3A power supply. When using it, try to use the adapter distributed by the original factory. If the customer needs to replace their own power supply, the power supply voltage shall be subject to specific consultation and sales or original factory technology.
- 15. REST: reset button of aggregation router, which is inserted with pin assigned to SIM card, is released after pressing for about 45 seconds, and aggregation router can be restored to its factory state.
- 16. WAN: the external network is plugged into this port. The aggregation router can access the network of wide-area network port, and can also be aggregated with the 4g network.
- 17. LAN 1: This network port is connected to a computer to access the Internet. The browser enters IP: 192.168.11.1 and the password: admin, which can control the router background. If the password fails, it is recommended to change the browser and continue logging in, or press the REST to reset the router.
- 18. LAN 2: This port is connected to the computer, and can surf the Internet. The browser enters IP: 192.168.11.1 and the password: admin, which can control the router background. If the password fails, it is recommended to change the browser and continue logging in, or press the REST to reset the router.



4. MINE-M4 Bonding Router User-Guide

1) Insert 1-4 4G sim cards, and insert the chip into the 4 g card slot with one end down, as shown in the following figure.



2) Connect 4 piece of 4G antennas and 2 piece of WiFi antennas (note: 4G antenna has a pin, while WiFi antenna has no pin)



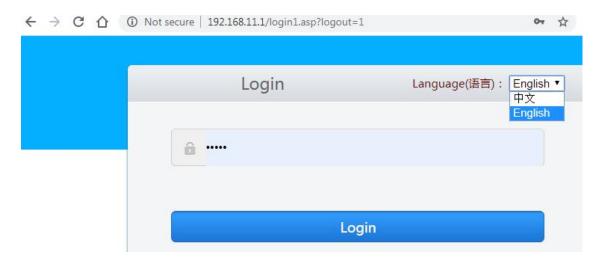
Note: Wrong insertion of WiFi antenna will result in the 4g card not being recognized.



3) Press the ON/OFF button of the MINE-M4 Bonding Router, and the indicator light is always on, indicating that the device has been turned on, and then wait for the device system to start, which takes about 2-3 minutes to completely turn on;

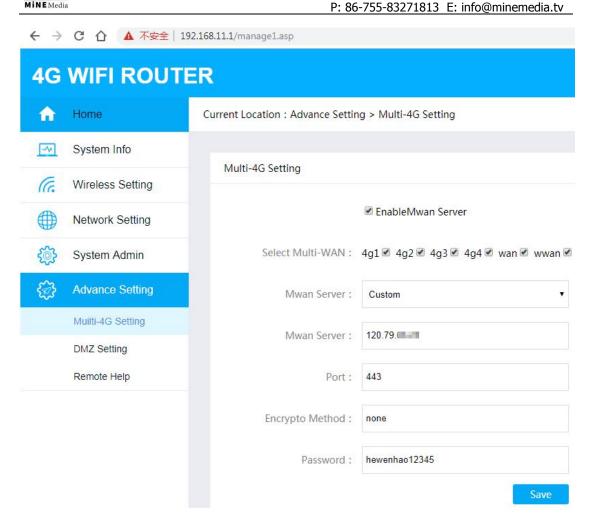
Note: When the device is turned on, the screen will be white for about 10 seconds, then black for about 43 seconds, and the information on the display screen will be replaced. After the display lights up, wait for about 1 minute, and all the information on the display will be displayed. The whole process of starting up takes about 2-3 minutes.

- 4) One end of the network cable is plugged into the LAN 1 or LAN 2 port of the aggregation router, and the other end is plugged into the network port of the computer. The computer automatically obtains the IP address, then opens the browser (Google browser is recommended), and enters IP: 192.168.11.1 Password: admin.
- a. Ensure that LAN 1 or LAN 2 port of MINE-M4 is connected to your PC directly or through a switch, and keep your PC IP and MINE-M4 in the same LAN, that is, your PC IP should be 192.168.11. * for example, your device is enabled with 192.168.11.5 or DHCP.
- b. Open http: //192.168.11.1 with a browser, the password is admin, and you can select the English UI. Or Connect to the M 4 Mini AP and login - M 4 Pro-2. 4 g-xxx or M 4 Pro-5 G-XXXX, the default password is 12345678.



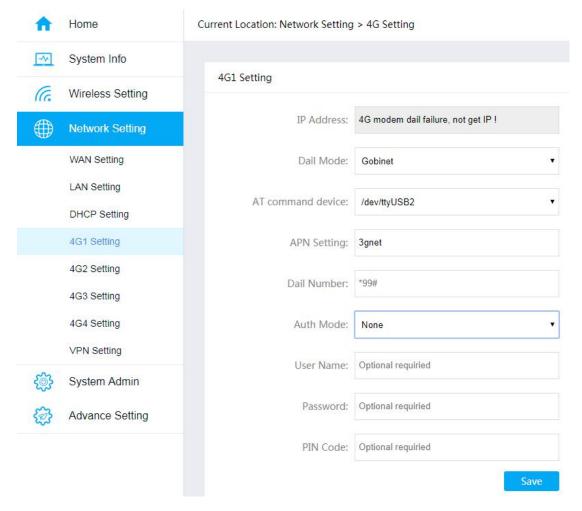
c. Mwan Server & Port keep same as your bonding server's, others information keeps same as below screenshot.

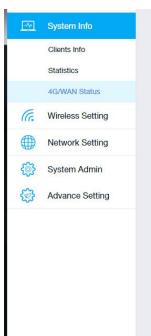




d. When all settled, the SIM card still can't get network, maybe you need to setup the APN per your SIM operator, please check the System Info-4G/WAN Status, then click the [Refresh] to check all the 4G modem info.

P: 86-755-83271813 E: info@minemedia.tv

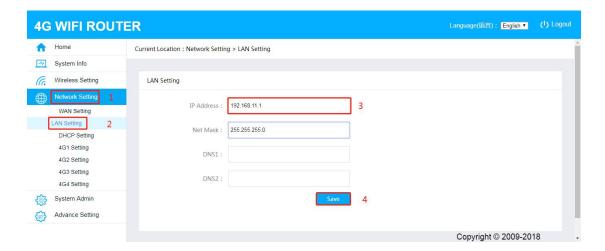




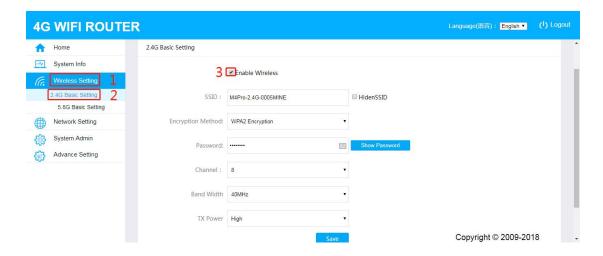
4G Mode	m Into			
	Modem 1	Modem 2	Modem 3	Modem 4
SIM	Ready	Ready	Ready	Ready
Operator	CHN-UNICOM	CHN-TELECOM	CHN-UNICOM	CHN-UNICOM
Signal Strength	100%	100%	100%	96%
IP	10.6.203.104	10.32.138.28	10.237.180.223	Not connect!
Used	OKB	1KB	5KB	OKB
Model	SLM750- T_C03_2.0.5_EQ102	SLM750- T_C03_2.0.5_EQ102	SLM750- T_C03_2.0.5_EQ102	SLM750- T_C03_2.0.5_EQ10
IMEI	863879042721848	863879042725153	863879042725849	86387904272180
IMSI	460017064981406	460115055294322	460014794296046	46009868580597
ICCID	89860119801429734056	89860320747550569933	89860119801429705270	89860118842300519



5) Modify IP of the MINE-M4 bonding router: enter the web control interface of MINE-M4 bonding router, and click [Network Setting] -[LAN Setting]-Modify [IP Address]-[Save].



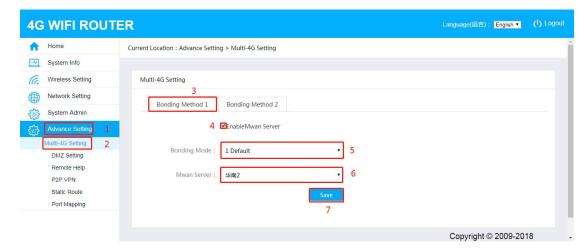
6) Modify 2.4G/WiFi settings: enter the web control interface of the MINE-M4 bonding router, and click [Wireless Setting] -[2.4G Basic Setting]-Check [Enable Wireless]-Modify WiFi Name [SSID]-Modify [Password]-[Save]



Note: 5.8G/WiFi setting is the same as 2.4G/WiFi setting

7) Open the MINE-M4 bonding router server: enter the web control interface of the MINE-M4 and check [Advanced Setting]-[Multi-4G Setting]-Select [Bonding Method 1]

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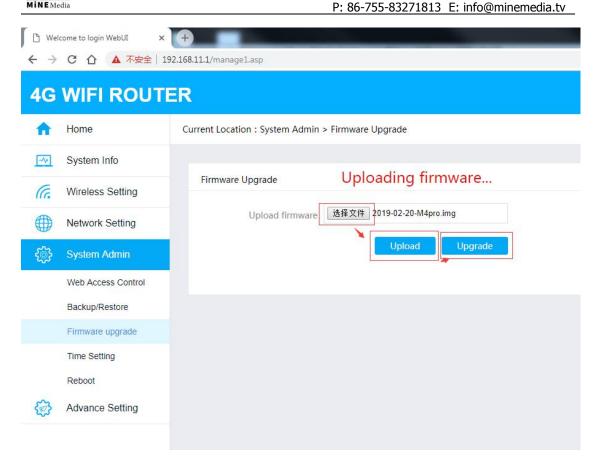
Note:

- 1 Default normal mode
- 2 Roundrobin forced traffic balance mode usually used for live stream
- 3 Redundant redundancy mode, improved based on the mode 1
- 8) 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 the MINE-M4 bonding router.

5. MINE-M4 Firmware Upgrade

- ① Login MINE-M4 Web Management Background (Open Browser, enter IP: 192.168.11.1, password: admin
- ② [system Admin] -[Firmware Upgrade] -Select Firmware, then click [Upload], finally click [Upgrade], the system will automatically upgrade and restart the MINE-M4 bonding router, and the whole upgrade process will take about 3 minutes.



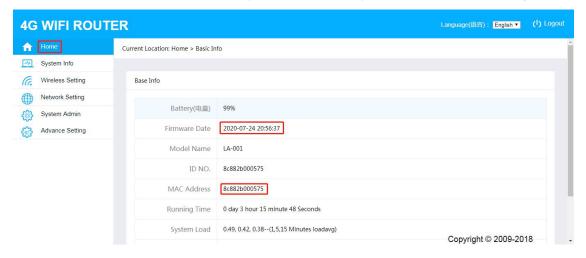


Note: Please download the latest firmware from our website,

http://www.minemedia.tv/downloads/

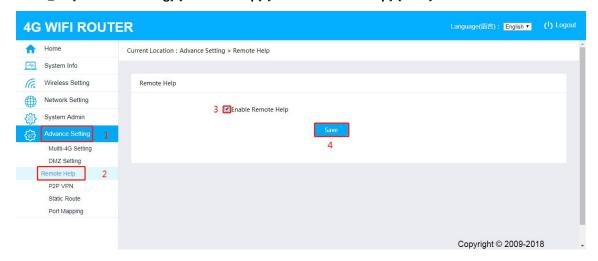
6. Remote Assistance

- ① Login MINE-M4 Web Management Background (Open Browser, enter IP: 192.168.11.1, password: admin
 - (2) [Home], check [MAC Address], provide with below picture screenshot to our engineer.



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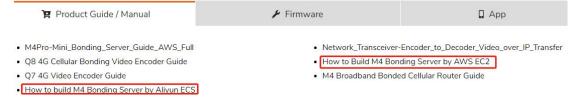
③ [Advance Setting]-[Remote Help]-[Enable Remote Help]-[Save]



Note: Make sure the MINE-M4 bonding router opens the Remote Help function successfully and contact MINE Technical Support to check the device online remotely.

7. Bonding Server Building

- 1 Bonding server selection: Amazon, Ali-cloud or build yourself.
- 2 Please get the server guide manual fromwww.minemedia.tv/downloads/



(3) Contact your salesperson to get server guide manual.