WF88 Evaluation Guide

Amp'ed RF Technology, Inc.

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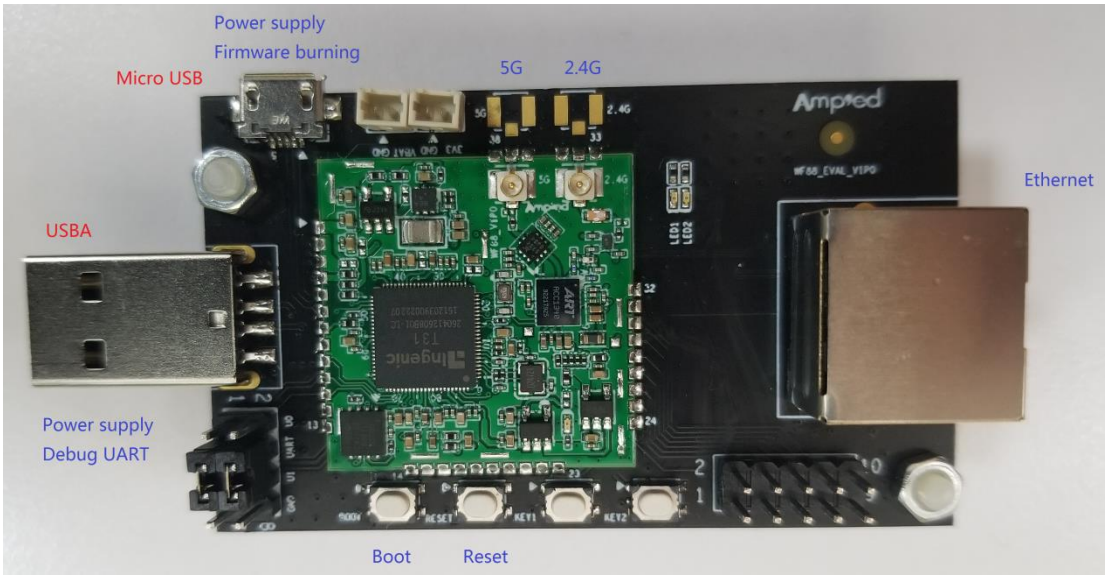
1. Introduction to WF288 Evaluation Board



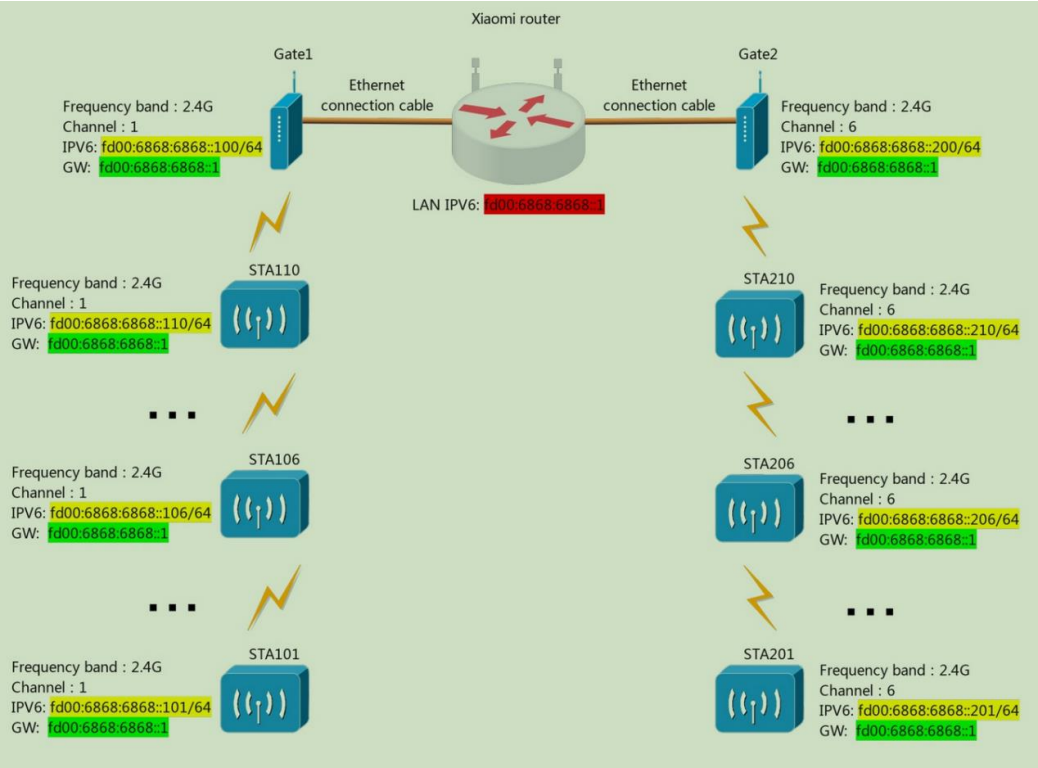
The WF288 is the evaluation board for the WF88 module, and contains the following features:

- Micro USB: firmware update interface and power supply.
- USBA: debugging and serial comm port interface and alternative power supply.
- Boot: boot button for firmware update.
- Reset: system reset button.
- Ethernet interface.

Note: either the Micro USB or USBA can supply power to the board. Both may be used at the same time.

2. Network Connection Example

An example mesh and IPv6 network diagram is shown below:



3. Communications Ping Test

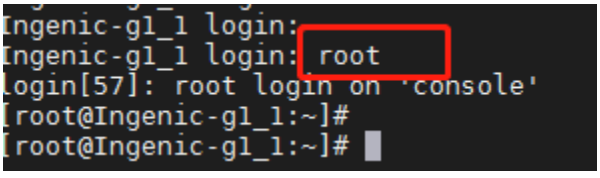
After setting up the above example network or similar network, the following ping communication testing may be performed.

3.1. Ping from mesh network device

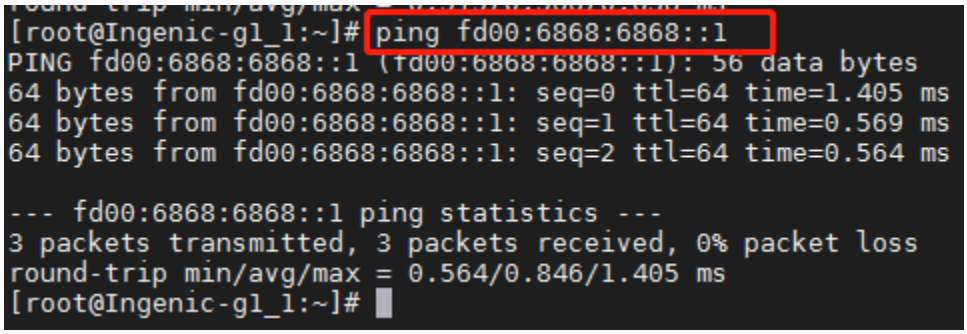
3.1.1. Connect the USBA port from a Gateway or STA device in the mesh network.

3.1.2. Run a serial debugging terminal.

- Default username is “root”
- Password is “Amped123”
- Serial setup: 115200 baud, N/8/1, no flow control



3.1.3. Use the ping command to check the router, mesh gateway, or STA (mesh node). Their IP addresses must be known before testing.



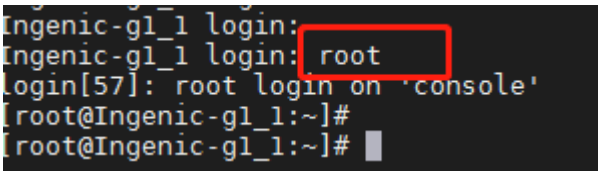
3.2. Ping from a PC in the network

3.2.1. Join a PC into the router's network used for the mesh network.

3.2.2. Use the ping command to check the router, mesh gateway, or STA (mesh node). Their IP addresses must be known before testing.

4. Parameter Configuration Example

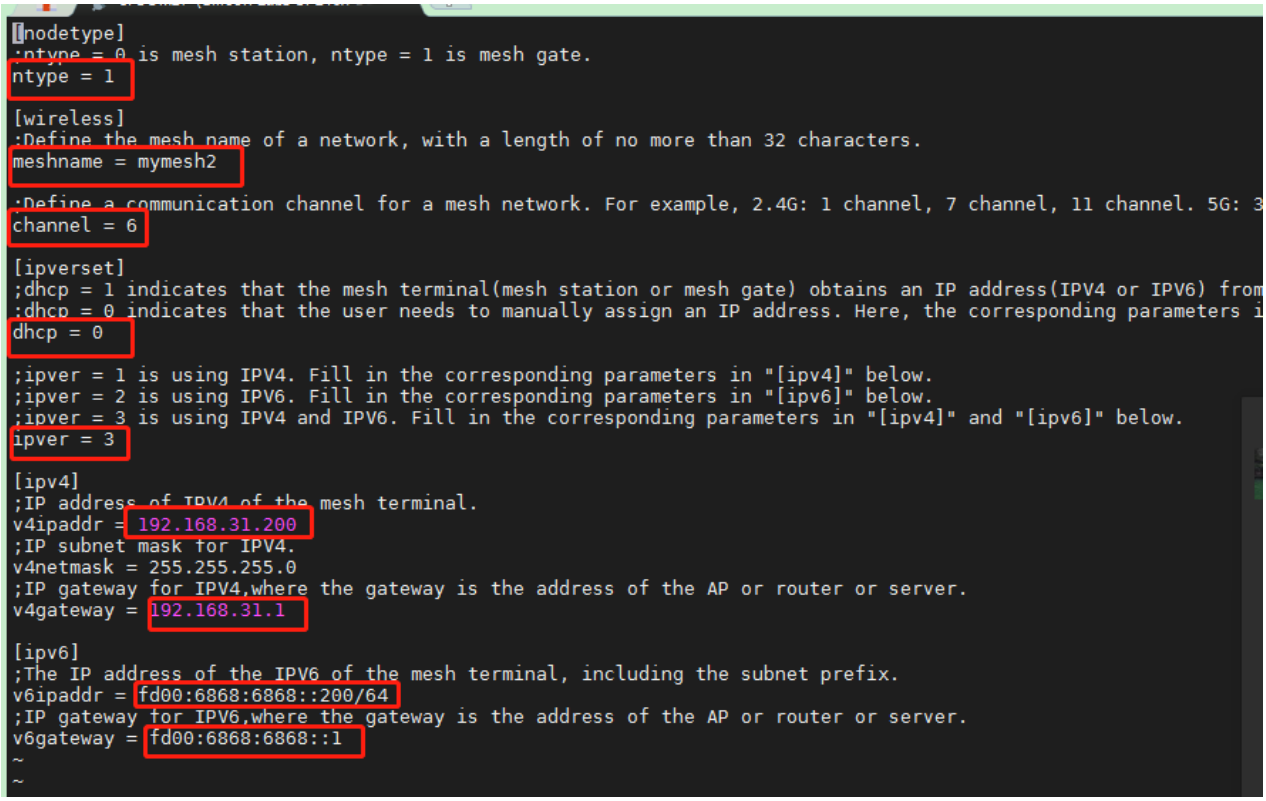
4.1. From the USBA connection, go to root" system.



4.2. Configure WF88 mesh parameters

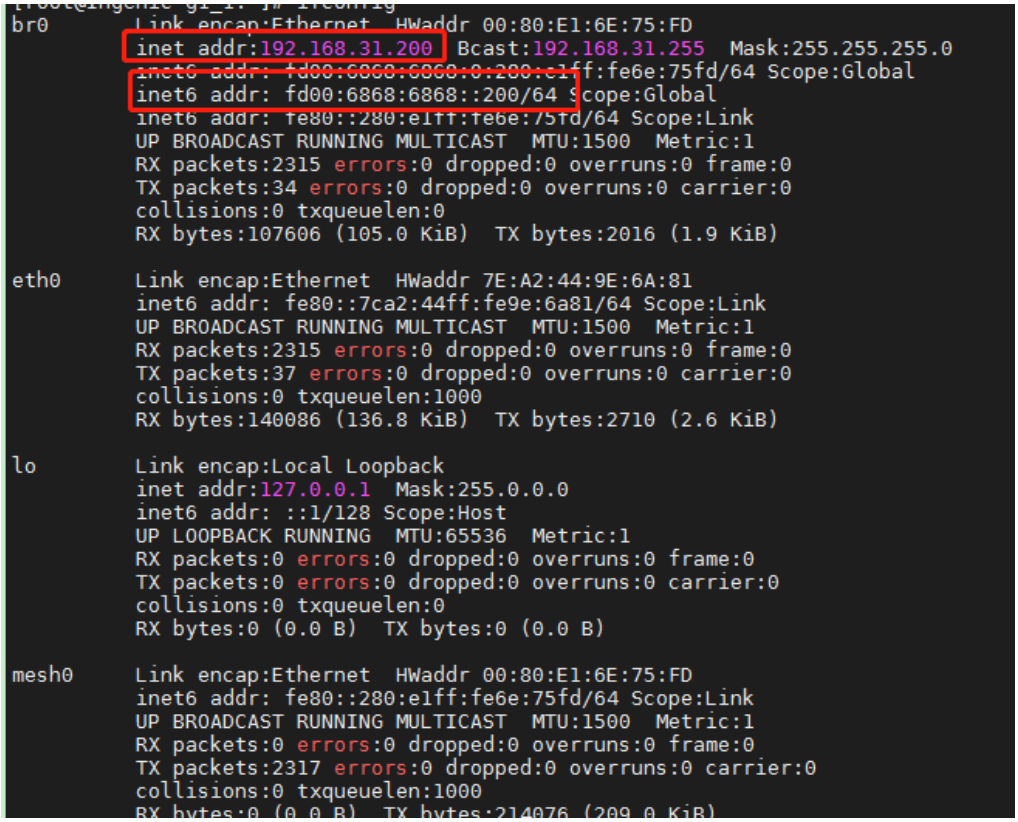
Enter “vi /system/etc/config/meshconfig.ini”

Modify the following parameters:

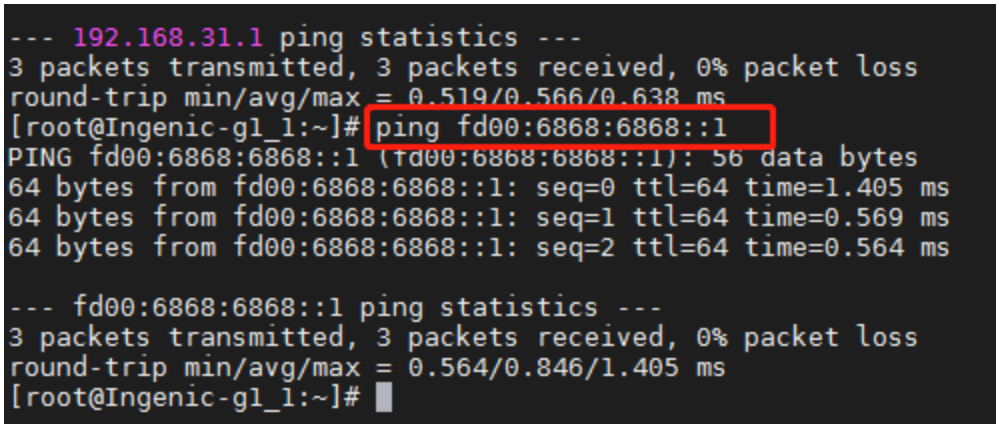


4.3. After the configuration is saved and restarted, the changes will take effect.

4.4. Enter ”ifconfig”. The module’s IP address is read.



4.5. Check the new settings with a ping command to other modules in the network.



5. Revision History

Date	Revision	Description
3, May, 2023	1.0	Initial version
25, May, 2023	1.1	Update password and serial setup dafaults