MiraUSB
by LumenRadio

Plug and Play mesh connectivity

GET STARTED

The quickest way to get started with MiraUSB is on a raspberry pi with the included .deb installer:

1. **Prepare the Pi with Raspberry Pi OS, scan the QR code for more info.**
2. **Copy gateway/mira-gateway-armhf.deb to the Pi's memory card.**
3. **Boot it up and login.**
4. **Run:** sudo dpkg -i mira-gateway-armhf.deb
5. **Edit** /etc/default/mira-gateway, **change** MIRA_GW_PAN_ID **and** MIRA_GW_KEY**, set** MIRA_GW_ANTENNA **to 1 and set** MIRA_GW_FORWARD **to yes.**
6. **Connect the Radio Module in a free USB port.**
7. **Start the service with:** sudo systemctl start mira-gateway

Run: journalctl -u mira-gateway.service -f **to see the latest messages from the service. After a couple of minutes it will show "Joining network" and "Joined network". After that mesh nodes will start to join the network.**

On other platforms, run the mira_gateway **binary (for linux x86) or the** mira_gateway-armhf-linux **(for linux arm) directly:**

```
sudo ./mira_gateway -m root -r 0 -F --key=<MIRA_GW_KEY>
--panid=<MIRA_GW_PAN_ID> --dev=AUTO --dfu-dev=AUTO -M mon.db -R --antenna=<MIRA_GW_ANTENNA>
```

For more detailed information and link to our support portal, scan this QR code:

DATA SHEET

Environmental

- Ambient operating tempeture range -20°C to +55°C
- RH: 10 – 95% non-condensing
- IP20

Electrical

- Range: up to 1000m free line of sight between two meshing devices
- Bluetooth range: up to 35m free line of sight
- Output (ERP): Max 20 dBm
- Sensitivity: -93dBm
- RP-SMA external antenna connector
- Internal antenna option
- Frequency band: 2.45 GHz, ISM band (2402-2480 MHz)
- 5V supply voltage 100mA max current through USB interface
- Supports Linux/Mac hosts, both ARM and x86

Conformance

- Radio: EN 300 328 v2.2.2, FCC part 15C
- EMC: EN 301 489-1, EN 301489-17
- Electrical Safety: IEC 62368-1:2014 / EN 62368-1:2014

CE FC

For MacOS builds, contact support@lumenradio.com

For orders contact sales@lumenradio.com

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