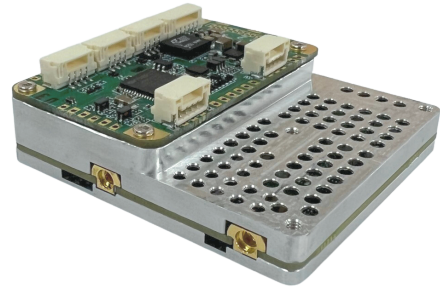


Doodle Labs Helix Mesh Rider Radio (2x2 MIMO) - 1625~2500 MHz (M1 - M6)

2023 Update

The Doodle Labs mini and nano -OEM Mesh Rider Radios were updated in Q1 of 2023. Customers are encouraged to switch over to the newer design. Legacy hardware should not be used for new designs. Look for updated ordering codes in the model's datasheet.



Change List

1. Primary connector replaced by 6 connectors with different hardware interfaces
2. Added USB Host connector
3. Added 3x GPIO

Datasheet

[M1 - M6 Multiband mini-OEM Mesh Rider Radio](#)

Hardware Information

Guides

Hardware Integration Guide:

- [2023 Update](#)
- [Legacy](#)

Radio Integration Information

2023 Update:

- [Pin Diagrams](#)
- [2D Drawings](#)

- [3D Drawings](#)
- [Heat Map](#)
- [Cable Drawings](#)

Legacy:

- [Pin Diagrams](#)
- [2D Drawings](#)
- [3D Drawings](#)
- [Heat Map](#)
- [Cable Drawings](#)

Evaluation Kit Information

2023 Update:

- [EVK Schematic](#)
- [EVK Layout](#)
- [EVK Pin Diagram and Wiring Guide](#)
- [EVK 2D Drawing](#)
- [EVK 3D Drawing](#)

Legacy:

- [EVK Schematic](#)
- [EVK Layout](#)
- [EVK Pin Diagrams](#)
- [EVK 2D Drawing](#)
- [EVK 3D Drawing](#)

Accessories

- [Heat Sink](#)

Antenna Information

- [Evaluation Kit Antenna Datasheet](#)

Software Information

Guides

- [Getting Started](#)
- [Flashing new firmware](#)

Firmware Downloads

- [Sept 2023 Sense Release](#)
- [May 2023 Long-Term-Stable Release](#)
- [Older firmware \(not recommended\)](#)

Regulatory Information

- 2.4-GHz ISM Band Certifications
 - [FCC \(United States\)](#)
 - [IC \(Canada\)](#)
 - [CE \(Europe\)](#)