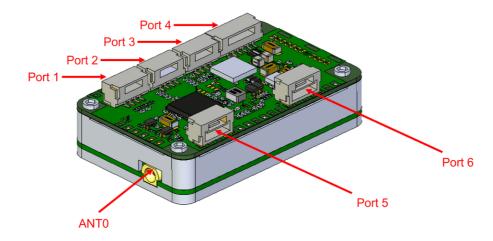
# 1x1 Multiband Mesh Rider Radio -Hardware Integration Guide

This Hardware Integration Guide provides the information to facilitate smooth integration and use of the nano-OEM Mesh Rider Radio.

The nano-OEM Mesh Rider Radio is a small mesh radio, capable of switching between 6 operating bands for deploying Private Wireless Networks. It is available in many frequency bands between 900 MHz and 6 GHz. The nano-OEM radio integrates Doodle Labs' Mesh Rider technology.

### **Hardware Description**

The nano-OEM has a primary connector which includes power, Ethernet, USB and UART ports. The interfaces are shown in Fig. 1.





Port1. USB-Device port Port2. Ethernet (ETH1) port Port3. UART + RESET port Port4. 5-V Power port Port5. USB-Host port Port6. 3x GPIO Port ANT0. Meshrider Antenna port

## **Hardware Integration Notes**

**Power Supply Integration** 

Note that the nano-OEM Mesh Rider Radio requires a 5-V supply. See the datasheet for voltage tolerance. Exceeding the rated supply voltage can cause damage to the Mesh Rider Radio.

#### Additional Guidelines

#### The nano-OEM Mesh Rider Radio does not include galvanic isolation.

Additional hardware Integration Guidelines can be be found on our Hardware Integration Guidelines page.