

Quick Start Guide



MRD8550 MERLIN KIT

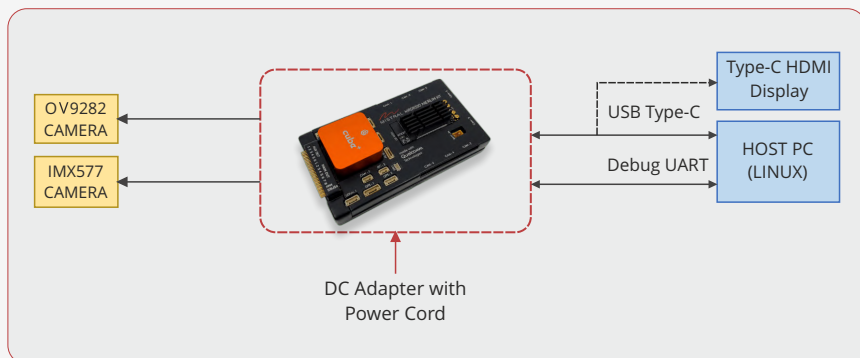
Powered by Qualcomm QCS8550 SoC

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SET UP

The Quick Start Guide provides easy instructions for the initial hardware & software setup of the MRD8550 Merlin kit from Mistral.

Here is a representation of connections to be made for test setup.



ACCESSORIES REQUIRED

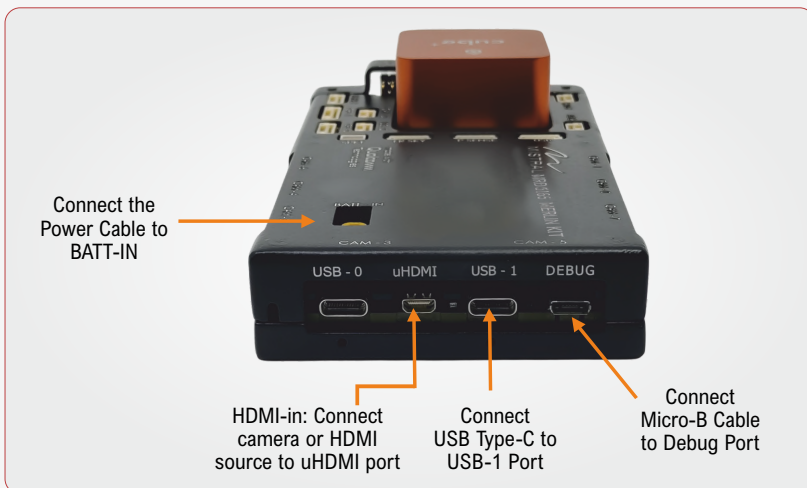
The MRD8550 Merlin Kit contains

- ▶ MRD8550 Merlin Board
- ▶ MRD8550 Flight Control Unit
- ▶ MRD8550 CAM_LR_Expansion Board
- ▶ Basic Accessories Kit
- ▶ Quick Start Guide

For testing, the following additional accessories are required

- ▶ USB Micro-B Cable
- ▶ Type-C DP Display
- ▶ Host PC (Linux)

HARDWARE SETUP



POWER UP & BOOT

1. Connect the cables as mentioned in Page 2
 2. Switch on the main power
 3. During the boot process, the debug prints will be available on the serial console
 4. On successful booting, the Type-C display will show a pattern print
 5. The pre-programmed board boots up to host a Wireless Access point with SSID "Merlin-Kit XXXXXXXXXXXX". XXXXXXXXXXXX to be replaced with the board serial number. The password for this network is "1234567890" (without quotes)
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SERIAL CONSOLE SETUP

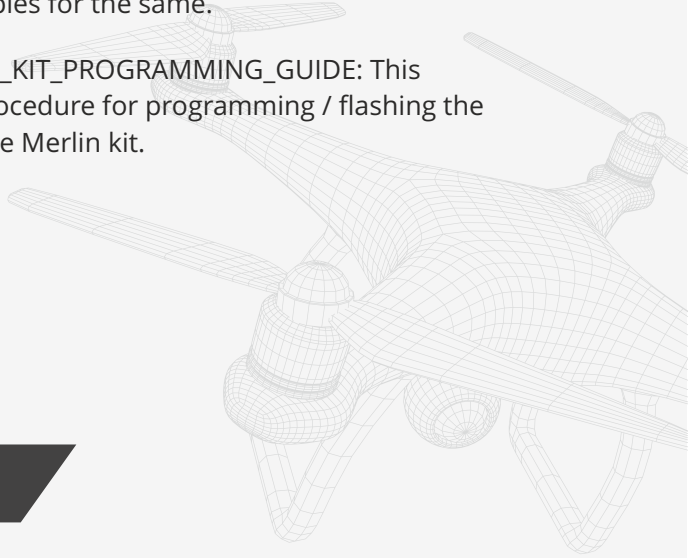
Serial Emulation Tool

- ▶ Minicom is a terminal emulation that can access a serial console enabling the configuration of bootloader or file system of the board. It is a simple terminal program, easy to configure and use. It can be downloaded and installed from your Linux distribution.
- ▶ **Serial Port setup parameters**
Bps/Par/Bits: 115200 8N1

SOFTWARE SETUP

The board is factory programmed with QCS8550 LE1.0 SP. Please refer to the following documents.

- ▶ MS_MRD8550_MERLIN_KIT_SOFTWARE_USER_GUIDE: This document provides details on the software features, drivers/ peripherals and examples for the same.
- ▶ MS_MRD8550_MERLIN_KIT_PROGRAMMING_GUIDE: This document provides procedure for programming / flashing the software binaries to the Merlin kit.



LET'S DO MORE!!

Visit www.mistralsolutions.com to register your MRD8550 Merlin kit and get access to the detailed documentation and resources for Merlin Kit.



Scan this QR Code for the latest updates on MRD8550 Merlin kit