

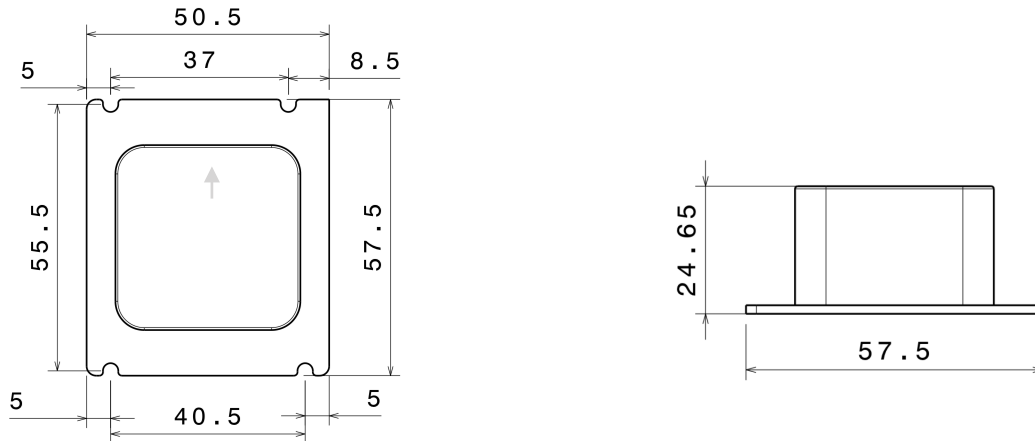


Cube mini carrier board v1.2
USER GUIDE

GENERAL :

The Airbot Systems Mini carrier board is one of the most simple way to install a Cube (aka Pixhawk 2.1) on a drone. The Mini carrier board encapsulate all the wiring in a 50.5x57.5mm board
The carrier board allows saving space and weight for applications which have size limits.

DIMENSIONS :



FEATURES :

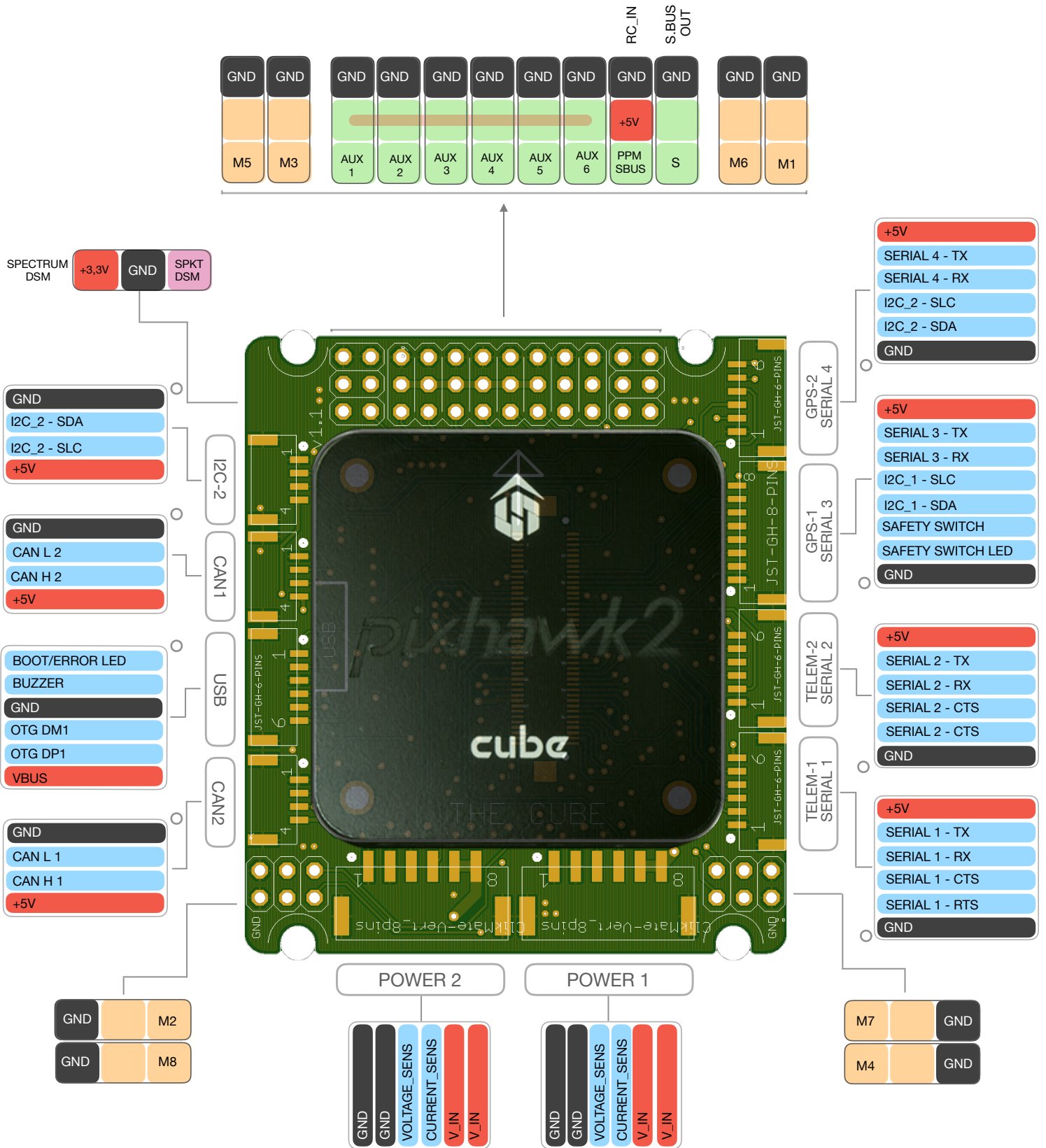
- Dual power inputs (redundant power with automatic switch to the second power source when first one fails, thanks to the Proficnc-Hex Power Selection Module // Power inputs must be between 5v and 5.7v)
- Easy to install on a drone (see the mounting pattern above)
- Power distribution & voltage protection (providing the current to each connector)
- Motors PWM signal distribution (up to 8 motors - distributed on board corners)
- Standard 2.54mm servo PPM/S.BUS/Spectrum RC input (+5v/+3.3v selectable and provided by the carrier board)
- AUX center pins are connected together. It allows to power the AUX rail by adding external power supply.

CONNECTIVITY :

LABEL	CONNECTOR ON THE BOARD	CONNECTOR TO PLUG IN
I2C_2 - CAN1 - CAN2	JST GH : BM04B-GHS-TBT	GHR-04V-S
USB - TELEM1 - TELEM2 - GPS2	JST GH : BM06B-GHS-TBT	GHR-06V-S
GPS1	JST GH : BM08B-GHS-TBT	GHR-08V-S
POWER1 - POWER2	Molex CLIKMATE : 502443-0670	502439-0600

All connectors are the same than the Proficnc/Hex original Pixhawk 2.1 carrier board

PINOUT DIAGRAM :



RC SIGNAL AND POWER SELECTION :

