

This kit allows you to build a CubeSat Simulator with minimal soldering and some assembly.

Kit instructions: https://CubeSatSim.org/kit-beta

Discussion Forum on CubeSatSim on GitHub:

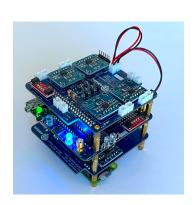
https://github.com/alanbjohnston/CubeSatSim/discussions

Operating Quick Start Guide: https://cubesatsim.org/qsg-beta

Quick Start Guide video: https://cubesatsim.org/qsg-videos-beta







Kit contents



- A: MPU6050 IMU/gyro blue sensor and 8 pin male header (the right angle pin header is not used) in antistatic bag
- B: BME280 Pressure, temperature, altitude, and humidity purple sensor and 4 pin male header in antistatic bag
- C: JST wires to be soldered onto the solar panels (10x)
- D: Double stick tape for attaching solar panels to the frame
- E: Solar panels (10x)
- F: Small Phillips screw driver for frame hardware
- G: Frame, 4 parts: top/bottom (2x), side, and side with camera
- H: Digikey parts containing standoffs, nylon screws and nuts, SMA coax and antennas, etc (see below for list)
- I: USB-C cable and power plug
- J: Fully assembled Solar board
- K: Fully assembled STEM Payload board with fully programmed Raspberry Pi Pico W plugged in and JST jumper
- L: Fully assembled Battery board with JST jumper
- M: Raspberry Pi Zero WH with programmed micro SD card plugged in and Pi Camera
- N: AMSAT Remove Before Flight plug for RBF switch

Note: Parts A, B, C, D, and F are in a zip lock bag.

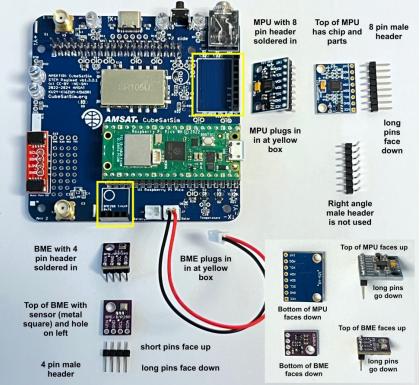


Here are the Digikey parts (H):

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1	M2.5 nylon screws for frame		8
2	M2.5 nylon nuts for frame		8
3	M2 screws for mouting camera		4
4	M2 nuts for mouting camera		4
5	GPIO 20x2 female stacking header extra long		2
6	M2.5 11mm standoff		2
7	M2.5 23+6mm standoff		8
8	M2.5 6+6mm standoff		2
9	M2.5 18mm standoff		2
10	M2.5 screws		8
12	SMA 6" male to female for antenna connecti		2
13	SMA 433 MHz antenna		2

Important BME and MPU sensor soldering details

Solar panel soldering





Full instructions: https://CubeSatSim.org/kit-beta

