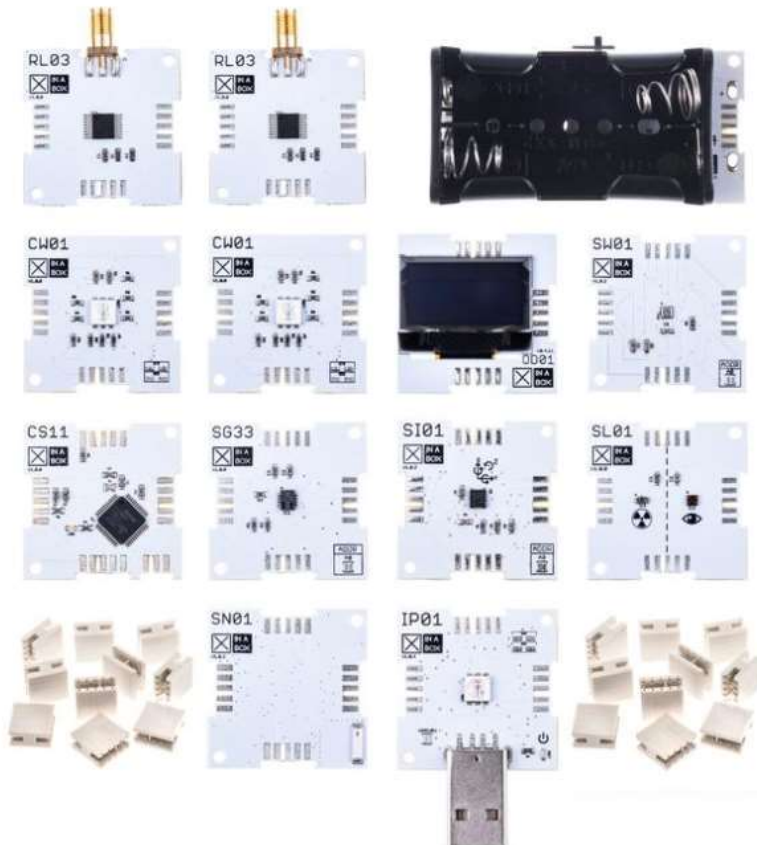


Part Number: XK07

Description: STEM FlatSat Kit

The STEM FlatSat Kit includes xCHIPS to build both a FlatSat (which can be moved in the environment, including being flown), and a Ground Station, to receive and display data.



### Kit contents

The FlatSat consist of the following:

- 1 x [AM02 - Antenna Monopole 868/915 MHz](#)
- 1 x [CW01 - Wi-Fi Core \(ESP8266/ESP-12F\)](#)

- 1 x [CS11 - Core with SD Card Interface \(ATSAMD21G18\)](#)
- 1 x [PB04 - Dual AA Intelligent Battery Power Pack](#)
- 1 x [RL03 - LoRa Radio \(915 MHz\) \(RFM95W & SC18IS602B\)](#)
- 1 x [SG33 - VOC & eCO2 \(CCS811\)](#)
- 1 x [SI01 - IMU 9DoF \(LSM9DS1\)](#)
- 1 x [SL01 - UVA, UVB, Light \(VEML6075 & TSL4531\)](#)
- 1 x [SN01 - GNSS \(GPS\) \(NEO-6M\)](#)
- 1 x [SW01 - Advanced Weather Sensor \(BME280\)](#)
- 1 x [XC10 - 10-Pack xBUS Connectors](#)

The ground station consist of the following:

- 1 x [AM02 - Antenna Monopole 868/915 MHz](#)
- 1 x [CW01 - Wi-Fi Core \(ESP8266/ESP-12F\)](#)
- 1 x [IP01 - USB Programming Interface \(FT232R\)](#)
- 1 x [OD01 - OLED Display 128x64 \(SSD1306\)](#)
- 1 x [RL03 - LoRa Radio \(915 MHz\) \(RFM95W & SC18IS602B\)](#)
- 1 x [XC10 - 10-Pack xBUS Connectors](#)

### **How it works**

This kit comes with ready to load Arduino code for an indoor environment monitor, plus access to a free data dashboard and [MQTT server](#) to send your data to the cloud.

[XinaBox's xChip CW01 is Microsoft Azure approved](#), so connection to the cloud is guaranteed to be quick and easy!