

PRODUCT OVERVIEW

Swarm Eval Kit



Antenna
8 in
203 mm

Total Height
11 in
280 mm

The Swarm Eval Kit transmits and receives data to and from Swarm's satellite network to provide connectivity anywhere on Earth. The Eval Kit is designed to provide the developer with an easy-to-use platform, with the included FeatherS2 - ESP32 board + OLED, a USB-C port, and I2C port for sensors. FeatherWing add-on modules can provide a suite of additional capabilities.

READY OUT-OF-THE-BOX

The Eval Kit is a turn-key hardware platform for satellite data connectivity anywhere on Earth. It immediately starts beaconing your GPS location, battery, and solar charge information once turned on. You can easily send messages with 1-click using the Swarm messaging app, and receive data by email or the in Swarm user web UI.

INCLUDES EVERYTHING YOU NEED

The Eval Kit includes a tripod, solar panel, batteries, and integrated VHF and GPS antenna. A live readout of RF background noise helps you achieve the best possible link quality. Connect your devices via WiFi (AP or STA mode), USB, or serial interfaces, and easily retrieve and manage your data via the Swarm Cloud and REST API.

CONTACT

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KEY FEATURES

- Easy remote data transfer from anywhere on Earth via the Swarm constellation
- Comes ready out-of-the-box
- Includes everything needed for developers to build IoT products

SENSORS	Onboard GPS (lat/lon/alt), CPU Temp
DIMENSIONS	32x26x8 cm (not including tripod or antenna)
MASS	2.6 kg
POWER	9 W solar panel, USB-C charger 30 Whr battery (3x 18650 cells) Unregulated 4.2 V battery output for external sensors or devices I2C with optional 3V3 pull-ups and a 3V3 regulated output 24hr lifetime on batteries only (wifi on)
ENVIRONMENT	Operational: -40 C to +60 C Waterproof enclosure, IP67 rating
INTERFACE	Power: Solar + battery Data: WiFi, USB-serial, Feather-serial, I2C Antennas: Sat + GPS (U.FL or SMA)
BIT RATE	1 kbps (Max packet size 192 bytes) AES256 GCM encryption
FREQUENCY	137-138 MHz (downlink) 148-150 MHz (uplink)
COMMANDING	Two-letter NMEA formatted