ENV+ Evaluation Kit Product Specifications

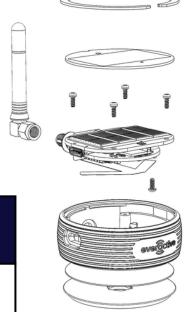


Intended Use

 Evaluation of Everactive's patented batteryless technology, which includes custom circuits for energy harvesting & power management and wireless networking.

Product Description

Main Features	
Solution	 2 Environmental+ (ENV+) Eversensors with antenna 1 Evergateway dongle with antenna 1 USB cable For optimal Evergateway dongle placement while in use 1 Programming board For resetting sensors Future capability: Over the wire configuration/updating sensor firmware
System Requirements	 Computer with Intel processor & Internet connectivity Windows operating system Open USB port (Evergateway dongle) >1 Amp USB Hub required if USB port does not supply >1 Amp, AND Desire maximum Evernet range
Evernet Communication Protocol	Evernet 2 modem in 915MHz ISM band with external antenna for Eversensor connectivity







20 cm Unit height

Evaluation Kit Features	
Operating Temperature	 Sensor: -10°C to 60°C (14°F - 140°F) Evergateway dongle: 10°C to 35°C (50°F to 95°F)
Operating Humidity	• 20% to 80% RH, non-condensing
Operating Behavior	Approximate sensor boot time: • 400 lux harvesting source: 1 minute boot • 200 lux harvesting source: 2 minute boot • 100 lux harvesting source: 5 minute boot Full capacitor charge under consistent harvesting: • 200 lux harvesting source: 3 days Reporting frequency: • 150 lux harvesting source: 1 minute frequency reporting • 100 lux harvesting source: 5 minute frequency reporting Full capacitor discharge time assuming harvesting removal: • 16 hours
Sensor Modalities and Parameters	Primary sensor package: BME280 • Temperature: -10°C to 60°C; +/- 2°C • Humidity: 20% to 80% RH; +/- 5% • Pressure: 300 to 1100 hPa Secondary acceleration sensor package ADXL362 (PDF) • Ultra low power triaxial accelerometer that sends "Move + Shake" sensor notifications in milli-g in the X,Y, & Z axis
Support and Other Features	Dev Console (Cloud) capabilities Integration modalities:

Evaluation Kit Features	
Storage Temperature	• -20°C to 70°C (-4°F to 158°F)
Storage Humidity	• 5% to 95% RH, non-condensing
Power	Evergateway dongle: • USB 2.0 (5VDC, 1A) for max range • USB hub
Wireless Protocol	Evernet 2 (proprietary) 915MHz • FCC ID: 2AO7C-83000023 for the wireless module internal to the Everagateway dongle • This IoT solution is not certified Intended use: prototyping and experimentation only.
Mounting	Sensor can be mounted with two primary ways: • Two-side adhesive strips • 1/4-20 thread for mounting with accessory plate For optimal harvesting, orient solar (photovoltaic - PV cells) with flat directly with light source.
Unit Weight	Evergateway dongle: 0.1kg (3.5oz)
Unit Size without Antennas	 Sensor: 5.00 cm diameter, 2.00 cm height Evergateway dongle: 129mm x 45.4mm x 31.2mm (5.1in x 1.8in x 1.2in)
Antennas size	 Sensor: 5 cm Evergateway dongle antenna: 13mm dia x 204mm (0.51in x 8.0in)
Shipping Weight	• 1kg (2.2lbs)
Shipping Size	• 178mm x 178mm x 83mm (7in x 7in x 3.25in)
Status light indicators	Evergateway dongle status LED ENV+ Eversensor status LED
Not rated for	Ingress Protection, Vibration, Shock, Safety, Salt & Fog, Package Drop, EM