EPM2M-AG-BRD-CELL
Cellular Sensor

The EPM2M-AG-BRD-CELL is a flexible multi-sensor module designed to be used as an assembly for an OEM to add to a system or as a complete solution for monitoring. Cellular connectivity allows the epSensor to be used in locations without Ethernet or Wi-Fi access. Sensors allow for air quality monitoring, temperature / humidity, motion detection, audio detection, light sensing, accelerometer and time of flight.

An expansion port allows for additional custom designed sensors to be integrated into the design for other application needs.
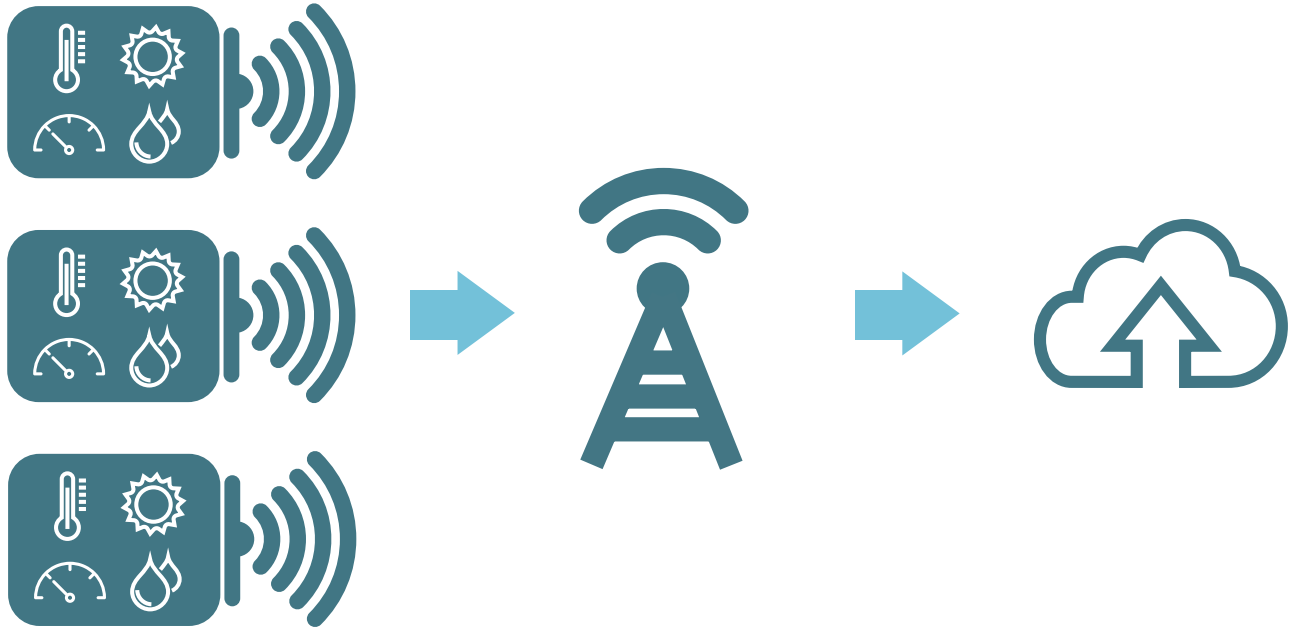
Feature Summary:

Specification:	Description:
Cellular:	Cat M1 / NB-IoT
Bluetooth:	Bluetooth 4.0, 4.2, 5.0 for configuration and setup
ARM mbed OS & Pelion enabled	Runs ARM mbed OS and is Pelion ready
Sensor Options:	
Ambient Light:	Maxim MAX44009EDT+ 0.045 Lux to 188,000 Lux
Temperature/Humidity:	Silicon Labs Si7021-A10-GM(1)(R) ±0.4°C (max), -10 to +85°C ±3% RH (max), 0-80% RH
Accelerometer:	TDK ICM-20602 ±2/±4/±8/±16 g linear acceleration full scale ±250/±500/±1000/±2000 dps angular rate full scale
Accelerometer/ Magnetometer:	ST Micro LSM9DS1 ±2/±4/±8/±16 g linear acceleration full scale ±4/±8/±12/±16 gauss magnetic full scale ±245/±500/±2000 dps angular rate full scale
Air Quality :	ST Micro VL53L0X Measures absolute range up to 2 meters
Time of Flight:	ST Micro VL53L0X Measures absolute range up to 2 meters
Audio Microphone:	TDK ICS-43432 High 65 dBA SNR, -26 dB FS Sensitivity, Frequency Response from 50 Hz to 20 kHz
Processor:	Sense audio changes in environment
FLASH:	32MB QuadSPI NOR flash
Operating Temperature:	-40 to +85C
Power:	2 x AAA or 2 x AA
Additional I/O:	I/O module available for SPI, I2C, USB and programming
Packaging:	Custom packaging and brand labeling available

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M2M Data Access and Management

- Embedded Planet is a complete IoT solution using epConnect with Sensors, Gateways and Cloud connectivity.

- epConnect solutions include LoRa, Wi-Fi, Cellular, BLE, SmartMesh and other wireless protocols.

- Embedded Planet has extensive experience with embedded operating systems and firmware. epConnect can be branded and customized to meet your particular needs.

- We can utilize epConnet to implement your complete IoT infrastructure.

- We can alleviate the headaches associated with volume production of embedded systems. Your product is delivered 100% tested from an ISO-9002 certified manufacturing facility.

- Contact Embedded Planet to find out how we can accelerate your project