

# EPM2M-SM-PIO

## SmartMesh Sensor

The EPM2M-SM-PIO Sensor Module is an industrial grade wireless sensor for Analog Devices / Linear Technology / Dust Networks SmartMesh IP based wireless sensor networks. SmartMesh IP is built for IP compatibility and is based on 6LoWPAN and 802.15.4e standards. The EPM2M-SM-PIO provides an easy to use, seamless connection between physical sensing world and the EPM2M-SM-IP Gateway using SmartMesh IP.

The EPM2M-SM-PIO includes sensors for light, pressure, accelerometer, humidity and temperature. By leveraging SmartMesh IP Embedded Planet has created a complete wireless sensor solution which provides low power consumption and can be used in harsh and challenging RF environments.

The EPM2M-SM-PIO uses the ARM Cortex M3 processor inside the SmartMesh IP module to minimize space and save power.



The EPM2M-SM-PIO sensors connect seamlessly to the EPM2M-SM-IP Gateway to allow IPv6 / 6LoWPAN access from a secure device directly to the EPM2M-SM-PIO sensor.

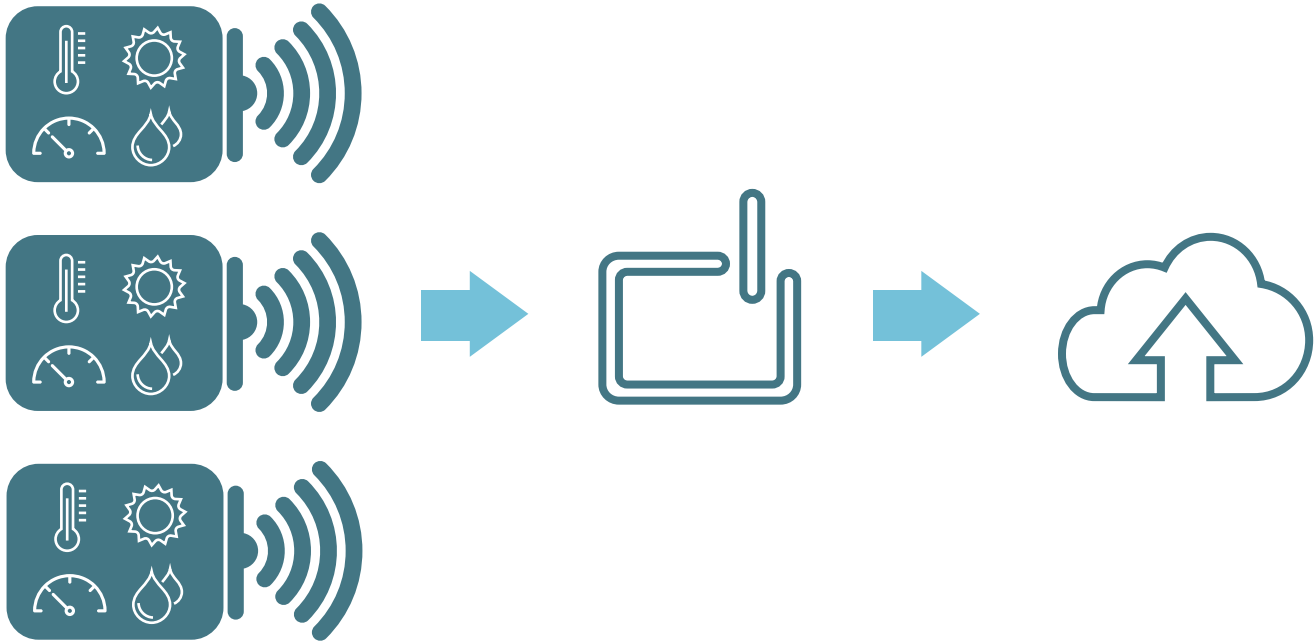
### Feature Summary:

Specification:	Description:
Processor:	SmartMesh IP Mote Module with Onboard Chip Antenna Containing an ARM Cortex-M3 32-bit Microprocessor (LTP5902-IPM)
Temperature:	12 / 14 bit resolution; measurement time at 14 bit is 50 ms max
Humidity:	8 / 12 bit resolution; measurement time at 12 bit is 16 ms max
Accelerometer:	Complete 6-axis, e-compass hardware solution +2 g/+4 g/+8 g dynamically selectable acceleration full-scale range +1200 $\mu$ T magnetic sensor full-scale range 14-bit ADC resolution for acceleration measurements 16-bit ADC resolution for magnetic measurements
Light:	Maximum Lux Sensitivity - Fluorescent light - 0.045 Lux/ LSB Saturation Ambient Lux Level - Sunlight - 188,000 Lux
LEDs	1x Green, 1x Red
Power:	2x AAA Batteries
Form factor:	Proprietary 3 x 2 x 1 inch Embedded Planet Enclosure
Debug:	Eterna Programming Header: ICSP of LTP5902-IPM module, CLI UART; MIPI-10 JTAG to LTP5902-IPM module; API UART over USB; SPI bus breakout

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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 epConnect 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