

# EPM2M-SM-IO

## Wireless Sensor

The EPM2M-SM-IO Sensor Module is an industrial grade wireless sensor for 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-IO provides an easy to use, seamless connection between physical sensing world and the EPM2M-SM-IP Gateway using SmartMesh IP.

The EPM2M-SM-IO 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-IO uses the ARM Cortex M3 processor inside the SmartMesh IP module to minimize space and save power. The EPM2M-SM-IO sensors connect seamlessly to the EPM2M-SM-IP Gateway to allow IPv6 / 6LoWPAN access from a secure device directly to the EPM2M-SM-IO sensor.



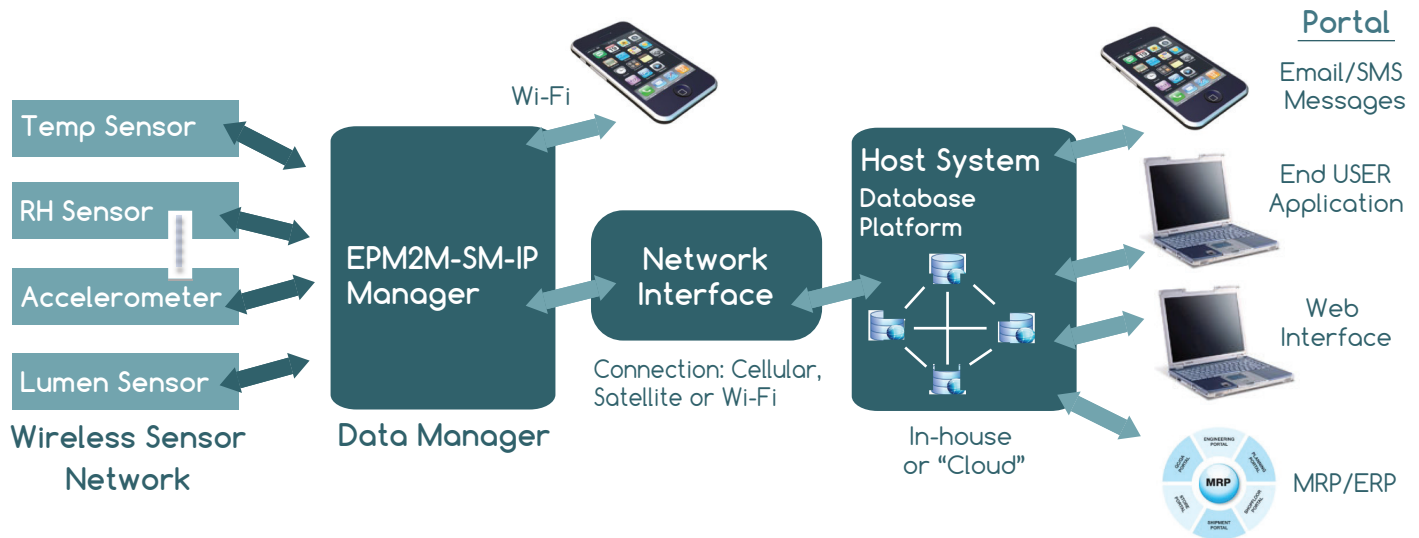
## Feature Summary:

Specification:	Description:
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
Pressure:	Less than 1 foot / 0.3 m resolution Pressure range: 20 - 110 kPa Compensated, direct reading (software is not needed): 20-bit pressure measurement (Pascals) 20-bit altitude measurement (meters)
Accelerometer:	Complete 6-axis, e-compass hardware solution $\pm 2$ g/ $\pm 4$ g/ $\pm 8$ g dynamically selectable acceleration full-scale range $\pm 1200$ $\mu$ 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
Power:	Battery options available

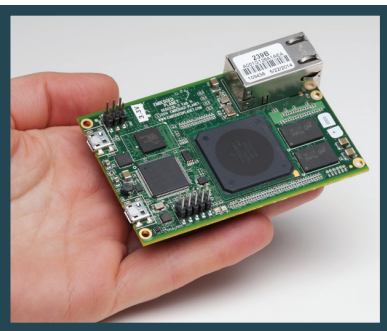
# EPM2M-SM-IO

## Wireless Sensor

### M2M Data Access and Management



### Let Us Do The Heavy Lifting



- Embedded Planet offers a complete set of software and hardware services to go along with our Off-the-Shelf solutions.
- Embedded Planet has extensive experience with embedded operating systems and firmware. Our stock configurations of operating systems and firmware can be customized to meet your particular needs.
- 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.
- Our capabilities are available on a project basis to design custom solutions specifically tailored to your application.
- Contact Embedded Planet to find out how we can accelerate your project.

Visit Us @ [www.embeddedplanet.com](http://www.embeddedplanet.com)