

# Talon EnOcean IoT Expansion for Sierra mangOH/FX30

EnOcean Gateway: Self Powered IoT Sensors



## EnOcean IoT Expansion

The mangOH EnOcean Expansion Board brings Self Powered Sensor connectivity to the Sierra Wireless mangOH IoT platform in a small QSFP+ form factor. The Talon EnOcean extender offers easy integration into the mangOH and FX30 platforms and is targeted as a simple, flexible, and low-cost expansion solution. A variety of EnOcean sensor devices can easily be connected to mangOH/FX30 platform. Talon's EnOcean Expansion Board includes options for built in Chip antenna or u.fl connector for FX30 applications. FX30 kit includes FX30 Faceplate and u.fl to SMA cable.

## Development Environment

The Sierra mangOH™ IoT platform is based on Legato open source Linux which is designed to simplify embedded IoT development.

Legato has everything you need to connect the IoT quickly:

- Programming language APIs – dev tools and APIs to easily write software components and specify how apps will use them.
- Target runtime environment – set of daemon processes cooperatively implement execution sandboxes, secure IPC, fault monitoring.
- Development and build tools – target, host, and build tools to create apps ready for deployment to your devices.
- Documentation and automated tests – documentation and automated tests ready to use.

## Applications

With the intuitive suite of EnOcean development tools it is a straightforward process to create code to receive sensor data and act as a Gateway Controller or Repeater. Easily connect mangOH or FX30 to a wide variety of EnOcean batteryless devices including:

- Light Switches
- Temperature & Humidity Sensors
- Occupancy and Motion Detection
- Key Card Switch
- Load Controllers – 16A 10V for fans, pumps etc.
- Magnetic Contact Switches

Battery-free  
by EnOcean



## EnOcean IoT Module Features

### Features

- 902 MHz North America Version
- 868 MHz European Version
- Certifications include: FCC, IC, CE/RED, ARIB
- EnOcean Alliance (ISO/IEC 14543-3-1X)
- On board Chip Antenna or u.fl coax connector
- 125Kbps OTA Data Rate
- Active Current 25mA, Sleep 50uA
- Simple UART Interface

### Physical

- 45.0mm x 22.3mm x 1.0mm QSFP+ form factor
- -40°C to +85°C Operation
- +3.3v or +5.0v Operation
- RoHS Compliant

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