



## K01R - VERSASENSE DEVELOPMENT KIT (SmartMesh IP)

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### PRODUCT DESCRIPTION

The VersaSense IoT Fabric provides a simple, reliable and affordable Industrial Internet of Things (IIoT) solution for wireless sensing and control.

All VersaSense sensors and actuators are truly plug-and-play, making them easy to install and use.

The VersaSense Evaluation and Development Kit provides everything that is needed to learn about the VersaSense technology, create basic wireless sensing and control systems and begin programming applications.

### KIT CONTENTS:

- ★ **1 \* VersaSense Edge Gateway:**  
Manages up to 100 wireless devices, provides a web interface and open APIs over Ethernet and WiFi.
  - **2 \* VersaSense Wireless Devices:** Forms a reliable, low-power mesh network. Each device supports 3 plug-and-play peripherals.
- ★ **4 \* Plug & Play Sensors:** light, temperature and humidity, passive infrared, buzzer actuator.
- ★ **1 \* Commissioning Peripheral** for commissioning and updating nodes.

### NETWORK TECHNOLOGY

The VersaSense IoT Fabric is designed for challenging environments such as factories, distribution facilities and data centers. It uses SmartMesh IP™ from Linear Technology® to provide a self-healing mesh network that delivers 99.999% reliability. Each VersaSense Edge Gateway (**M01**) coordinates a network of up to 100 VersaSense Wireless Devices (**Pxx**). Each wireless device acts as a repeater or 'router' with an approximate indoor range of 50M. This allows a single mesh network to

cover very large areas, such as entire factories, office buildings, ships or trains.

### SOFTWARE SUPPORT:

- ★ **Web Interface:** View documentation, securely pair devices with your manager, monitor network status, configure devices, view live sensor data and control actuators.
- ★ **RESTful API:** A request/reply RESTful API to access and configure your network, peripherals and devices.
- ★ **WebSockets API:** Pushes a stream of JSON sensor data to your web sockets application.

### DATA SHEETS FOR KIT CONTENTS:

**P01:** Wireless Device (SmartMesh IP):  
NOTE: TO FACILITATE SHIPPING THE P01 DEVICES IN THIS KIT DO NOT CONTAIN BATTERIES. EACH P01 REQUIRES INSTALLATION OF 2 SAFT 14250 OR SIMILAR.

[VersaSense-Pxx.pdf](#)

**M01:** Edge Gateway (SmartMesh IP):  
[VersaSense-M01.pdf](#)

**S01:** Passive Infrared Presence Sensor:  
[VersaSense-S01.pdf](#)

**S03-04:** Temperature & Humidity Sensor:  
[VersaSense-S03S04.pdf](#)

**S10:** Light Sensor:  
[VersaSense-S10.pdf](#)

**S19:** Buzzer Actuator:  
[VersaSense-S19.pdf](#)

**Z01:** Commissioning Peripheral with Micro-USB cable:  
[VersaSense-Z01.pdf](#)

**PRODUCT INFORMATION:**

Product brochure: [VersaSense-Brochure.pdf](#)  
Product catalog: [VersaSense-Catalog.pdf](#)  
Documentation: [General documentation and software development APIs](#)

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