



## M02 - VERSASENSE EDGE GATEWAY

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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.

The VersaSense Edge Gateway controls a network of VersaSense Wireless Devices. The gateway provides coordination, connectivity and an interface to the VersaSense network.

**Coordination:** the gateway configures and manages messaging, routing and software upgrades for the VersaSense network.

**Connectivity:** the gateway provides Ethernet and WiFi connectivity to the IoT network. REST and Web Sockets APIs provide access to, and control of the VersaSense devices.

**Interface:** the VersaSense Edge Gateway provides a simple web interface that supports network health monitoring, sensor data visualization and secure device commissioning.

The VersaSense software stack automatically installs and configures all drivers, eliminating the cost and complexity of deploying an IoT network.

### NETWORK TECHNOLOGY

The VersaSense Edge Gateway is designed for challenging environments such as factories, distribution facilities or data centers.

The M02 version of the VersaSense Edge Gateway uses SmartMesh IP™ from Analog Devices, Inc™ to provide a self-healing wireless mesh network that delivers battery life of up to 10 years, 99.999% wireless end-to-end reliability and accurate time-stamping.

The VersaSense Edge Gateway using SmartMesh IP™ can coordinate 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.

### HARDWARE FEATURES

- ★ Mini-ITX Industrial Motherboard
- ★ Intel® Celeron N2930 SoC Processor, Quad-Core, 1.83GHz, 2.16GHz Burst
- ★ 4GB RAM (DDR3L-1333), 64GB SSD (mSATA)
- ★ USB 3.0 and USB 2.0 ports reserved
- ★ HDMI and VGA display ports reserved
- ★ RS-232/422/485 Serial ports reserved

### NETWORK FEATURES

- ★ 6LoWPAN (802.15.4e) using SmartMesh IP™ LTC5800<sup>1</sup> for low power, high reliability IoT networking
- ★ 802.11 b/g/n WiFi (2.4GHz)
- ★ Intel® Gigabit Ethernet (10/100/1000 MBit/s)

### POWER FEATURES

- ★ External 12V DC power supply
- ★ Max 5A DC current draw
- ★ Battery-backed real-time clock

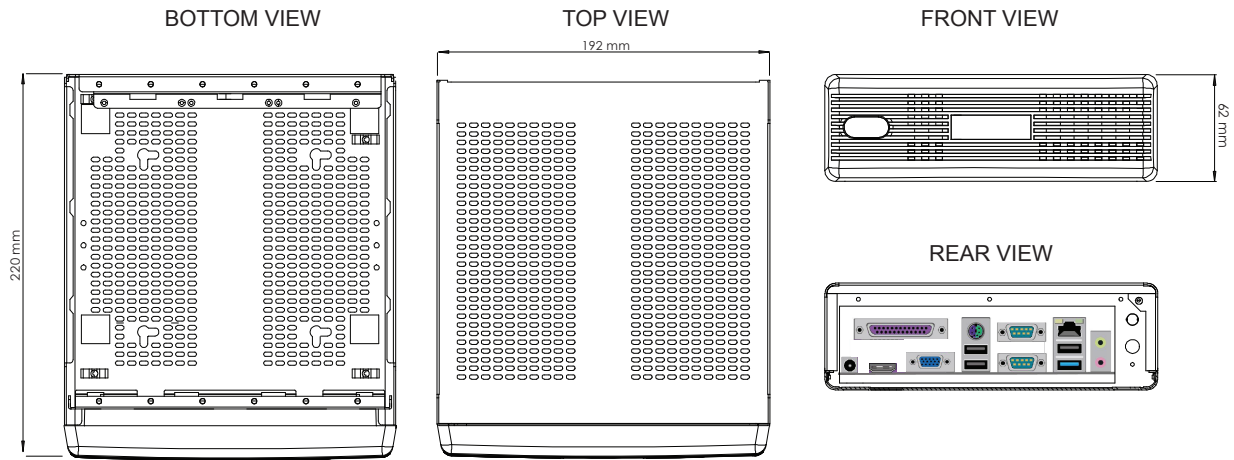
### APPLICATION FEATURES

- ★ Easy to use web interface
- ★ REST, WebSockets and IETF CoAP APIs

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<sup>1</sup> [LTC5800.pdf](#)

## MECHANICAL SPECIFICATIONS



Case construction material.....	Electro galvanised steel and ABS plastic
Antenna connector.....	RP-SMA
Mounting and placement options: .....	DIN-RAIL (vertical and horizontal), Vesa mount, Wall mount brackets, Rubber feet

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### DEVICE CHARACTERISTICS:

Supply voltage range.....	12V	Humidity: Oper. range (non cond.).....	0% to 90%
Maximum DC current.....	<= 5A	Humidity: Storage range (non cond.)...	0% to 90%
Temperature: Operating range.....	0°C to 60°C		
Temperature: Storage range.....	-20°C to 80°C		

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### PRODUCT INFORMATION:

Product brochure:	<a href="#">VersaSense-Brochure.pdf</a>
Product catalog:	<a href="#">VersaSense-Catalog.pdf</a>
Documentation:	<a href="#">General documentation and software development APIs</a>

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