

Nexus Industrial



The Nexus Industrial is a small, cellular gateway designed for industrial and outdoor applications. It is the central hub of the Nexus System, connecting a variety of SensePoint sensor nodes to the cloud for bidirectional monitoring and control.

An RS-485 port or a 10/100 Ethernet port allows it to connect to a wide array of PLCs, controllers, sensors and other equipment. An internal USB type A jack can be used for flash drives for removable storage or for connection to peripheral devices.

The Nexus Industrial natively supports Wi-Fi, Bluetooth Low Energy (5.2) and Thread. Additional wired and wireless technologies can be supported through the addition of an auxiliary M.2 card, such as Wi-Fi HaLow, a long-range 900MHz link and CAN bus.

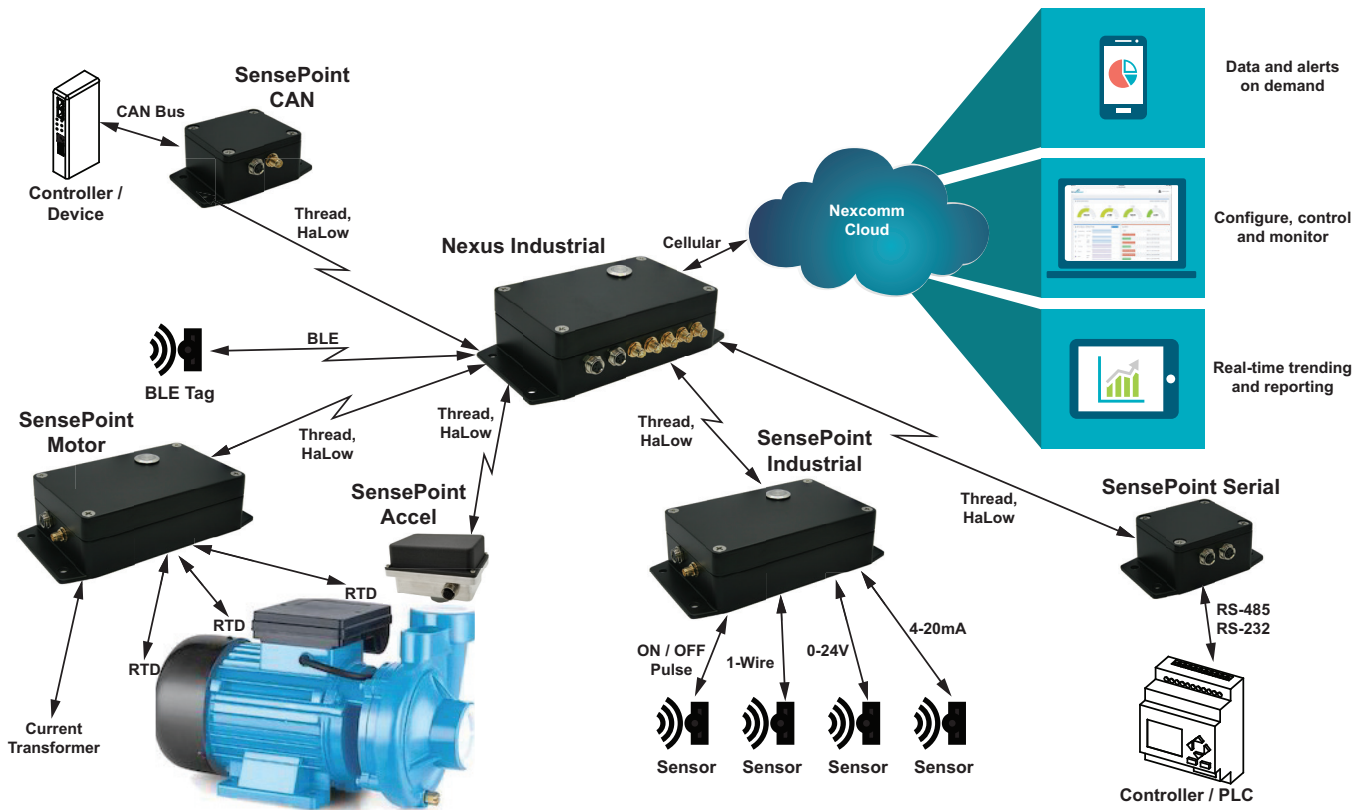
The Nexus Industrial has an IP67/68 diecast aluminum enclosure with an integrated mounting flange for easy installation in harsh industrial / outdoor environments. This makes implementing industrial IoT systems simple and inexpensive.

Benefits

- Wi-Fi or Ethernet to Cellular router to connect devices to the cloud without going through the IT department.
- RS-485 or Ethernet connection to external controllers, PLCs or other devices.
- Bluetooth Low Energy, Wi-Fi HaLow, or Thread wireless connection to SensePoint nodes or other sensors and devices.
- USB port for data storage or optional connection to external devices.
- Small size, simplifying integration into end products.
- IP67/68 diecast aluminum enclosure for harsh industrial or outdoor environments.
- Custom labeling and packaging are available.
- Customized website and API cloud connections are available.



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Nexus Industrial Specifications

Electrical

Operating Voltage: 7 to 36VDC, reverse polarity protected, 60V load dump protected

Communications:

One RS-485 Modbus channel

One USB channel

One 10/100 Ethernet port

Radios

Wi-Fi: 802.11 b/g/n

Cellular: LTE, CAT-1

GNSS location services

Thread, Bluetooth

Wi-Fi HaLow 900MHz (option)

Environmental

Operating temperature: -40°C to +85°C (-40°F to +185°F)

IP67 / IP68

Mechanical

3.14 x 4.90 x 1.59 Inches (79.76 x 124.46 x 40.39mm)

CPU

Qualcomm Atheros AR9331 Chipset (MIPS 24Kc architecture) at 400MHz

16MB Flash (total), 64MB RAM

OpenWRT Operating System

