EdgePoint Industrial

The EdgePoint Industrial is an industrial cellular gateway that is designed for 110VAC systems that need a large number of inputs for monitoring. It has 16 digital on / off 110 / 220VAC inputs, two 12VDC inputs, one 4-20mA input and three relay outputs. It has three inputs that are either 1V current transformers or 4-20mA inputs, based on switch selections. Ten digital output current sinks can be used to activate external relays, lights, or horns. Digital communications channels, such as RS-232, RS-485, Dallas 1-Wire, and Ethernet allows it to be connected to a wide variety of controllers, PLCs, sensors, and other devices.

The EdgePoint Industrial supports wireless protocols, including Wi-Fi, Bluetooth Low Energy (5.2), Thread, and Wi-Fi HaLow. A CAT-1 cellular modem connects the EdgePoint Industrial to cloud servers. This also integrates GPS for positioning services.
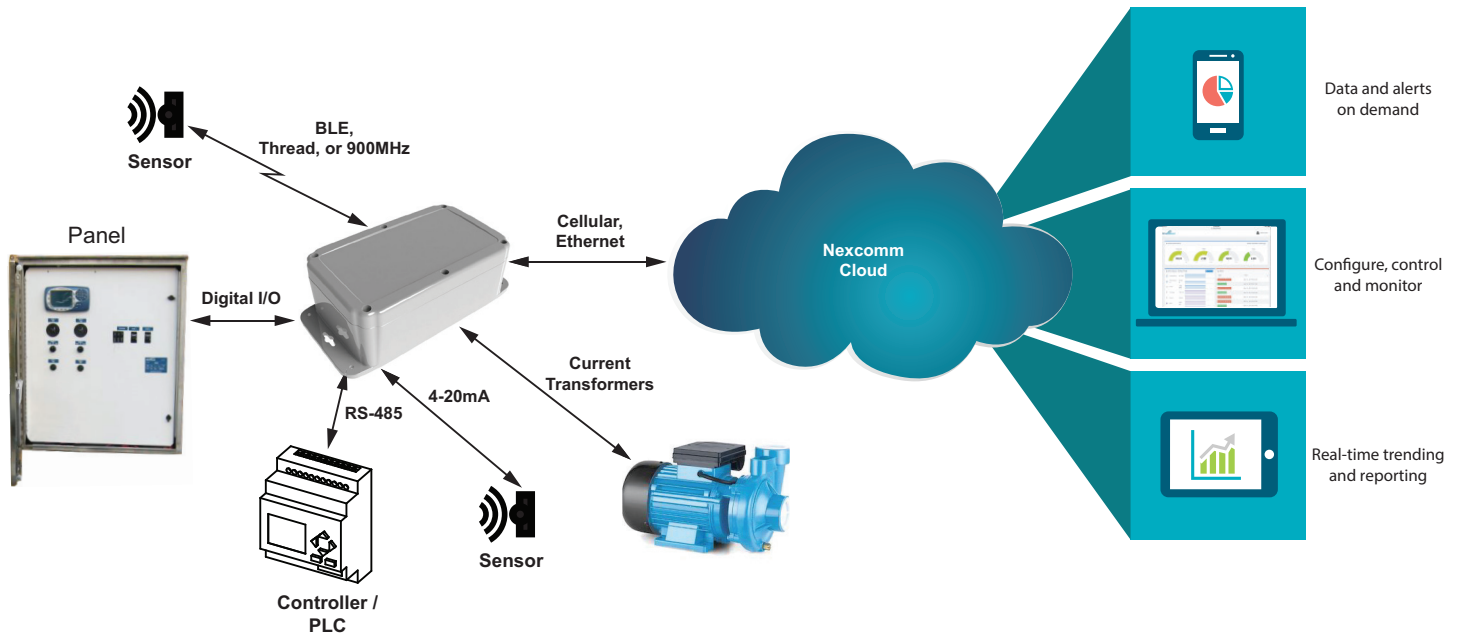
Housed in an IP67 enclosure, the EdgePoint Industrial is ruggedized for harsh industrial and outdoor environments. This makes it simple to add monitoring to industrial IoT applications.

Benefits

- Sixteen digital inputs, four analog inputs, three relays and ten current sink outputs allow the EdgePoint Industrial to monitor and control a wide variety of devices.

- Dallas 1-Wire, RS-485 and RS-232 ports for digital sensors or controllers.

- Three relays and ten current sink outputs for control of external devices.

- Rugged IP67 enclosure for harsh outdoor and industrial environments.

- CAT-1 LTE cellular connection offers better range and power management than traditional CAT-4 links.

- Optional Bluetooth Low Energy, proprietary 900MHz, Wi-Fi HaLow, or Thread wireless connections.

- Nexcomm Cloud services are available, or the system can forward data to a customer's existing cloud services.

- Custom labeling and packaging are available.

NEXCOMM Systems

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EdgePoint Industrial Specifications

Electrical
> Operating Voltage: 85 to 264VAC, 12 to 17VDC, reverse polarity protected

Communications:
> One RS-485 Modbus and two RS-232 channels
> One 10/100 Ethernet port
> One Dallas 1-Wire channel

Radios
> Wi-Fi: 802.11 b/g/n
> Cellular: LTE, CAT-1
> GNSS location services
> Thread, ZigBee, Bluetooth, Wi-Fi HaLow, proprietary 900MHz (options)

Inputs
> Sixteen 110VAC digital
> Two 12V digital
> one 4 to 20mA analog, three switch-selectable 0 to 1V CT analog or 4 to 20mA

Outputs
> Three 2A DPDT relays
> Ten digital output current sinks

Environmental
> Operating temperature: -40˚C to +85˚C (-40˚F to +185˚F)
> IP67

Mechanical
> 5.25 x 10.24 x 3.31 (133.35 x 260.10 x 84.07mm)

CPU
> Qualcomm Atheros AR9331 Chipset (MIPS 24Kc architecture) at 400MHz
> 16MB Flash (total), 64MB RAM
> OpenWRT Operating System