# EdgePoint RTU

**The EdgePoint RTU is a cellular gateway designed for outdoor applications. RS-485, RS-232, Dallas 1-Wire and six inputs give it the ability to connect directly to a wide array of digital and analog sensors and equipment for live monitoring.**

**A solar powered option includes a rechargeable battery and solar charging cell integrated into the box. This eliminates the need for local power at the installation site, making installation much simpler. It also makes moving the EdgePoint RTU to different sites easy.**

**A battery back-up option seamlessly switches to battery if main power is interrupted, keeping the EdgePoint RTU alive and reporting.**

**Nexcomm Systems offers cloud services to maintain the data, reporting and visualizations. However, the system can also forward the data to a customer's existing cloud services. This generic approach to connectivity makes the EdgePoint RTU ideal for integrating into new and existing systems.**

## Benefits

- Six inputs: two 4-20mA or 0-10V analog inputs, fixed in hardware; two 4-20mA or 0-10V analog inputs, software selectable; two digital or pulse inputs, up to 30V.
- Dallas 1-Wire, RS-485 and RS-232 ports for digital sensors or controllers.
- CAT-M1 LTE cellular connection offers better range and power management than traditional CAT-1 or CAT-4 links.
- Optional Bluetooth Low Energy or Thread wireless connections.
- Optional battery with solar charger eliminates the need for local power.
- Optional battery back-up keeps the device alive during main power interruptions.
- Dual relays and dual H-bridges can operate solenoids and small electric motors.
- 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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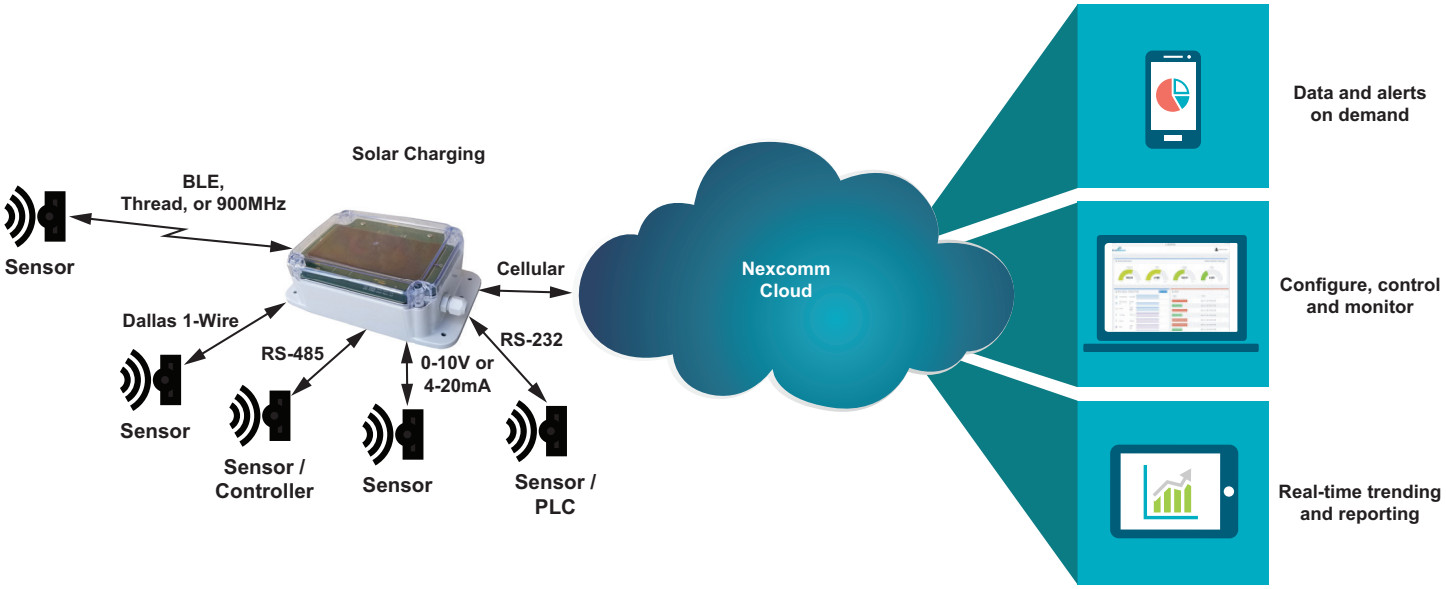


# EdgePoint RTU Specifications

Electrical

Operating Voltage: 9 to 36VDC, reverse polarity protected

Communications:

One RS-485 Modbus Channel
One RS-232 Channel
One Dallas 1-Wire Channel
Wi-Fi: 802.11 b/g/n
Cellular: LTE, CAT-M1
GNSS location services
Thread, Bluetooth, proprietary 900MHz (options)

Inputs:

Six total: two 4-20mA or 0-10V analog inputs, fixed in hardware; two 4-20mA or 0-10V analog inputs, software selectable; two digital or pulse inputs, up to 30V

Outputs:

Two SPDT latching relays
Dual 18V H-Bridge

Environmental:

Operating temperature: -20˚C to +70˚C (-4˚F to +158˚F)
IP67

Other:

Optional solar power or battery back-up board

CPU

Atmel ATSAMC21G18A Chipset (ARM Cortex-M0+ architecture) at up to 48MHz (8MHz typ.)
256kB flash (total), 32kB RAM

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