NEXCOMM
Systems

Connectivity Solutions for the IoT and Beyond

- Connect
- Monitor
- Control

Connect

Monitor

Control

About Nexcomm Systems

Nexcomm Systems was born out of the long history and experience of Fleet Metrix. Fleet Metrix brings over 20 years of experience in telematics, RFID, electronics manufacturing and systems integration. With a very strong background in embedded systems and cellular connectivity, Fleet Metrix has developed dozens of products for connecting mobile vehicles and has thousands of devices in the field. Many of these devices are still in continuous operation after more than 10 years.

With the explosion of IoT, the company realized that its embedded systems and connectivity solutions combined with the control and monitoring software it developed would create a complete solution with wide application across markets. Nexcomm Systems was spun off to focus on the large IoT marketplace while Fleet Metrix continues to focus on telematics and engine-mounted equipment.

Nexcomm Systems was formally founded in 2019 and launched a series of systems designed to meet the needs of real-world applications. There is no one-size-fits-all solution in IoT, so our systems are designed to adapt to the needs of our customers. With a few standardized building blocks, we can assemble a system tailored to a specific application without doing a fully custom design. This saves an enormous amount of time, money and effort while still meeting all of the needs of the application.

Mission

Nexcomm Systems creates connectivity solutions providing real-time information for monitoring and control of devices in the field. This provides actionable insight allowing optimization of resources, saving time and money and reducing risk.

Vision

Our vision is to provide our customers the simplest solutions for connecting their devices to the Internet.

The Nexcomm System

Nexcomm Systems offers the complete solution for connecting devices to the cloud. There are several elements that are required to do this.
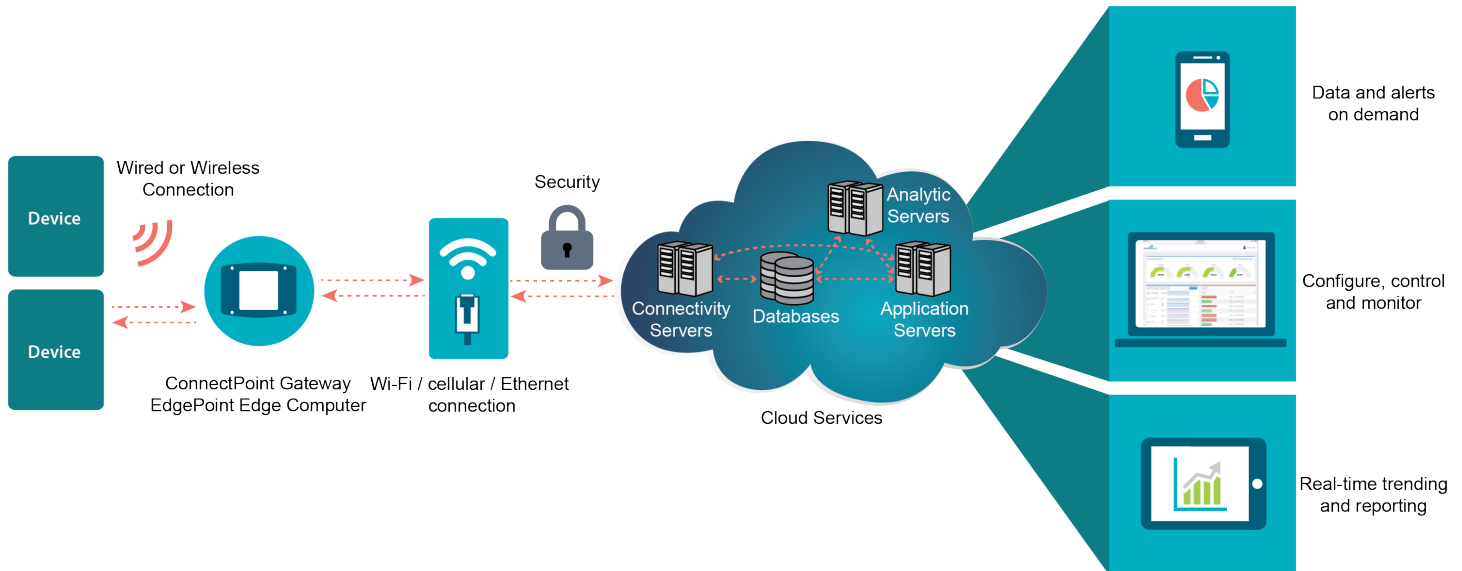
The Device

The device is created by our customers and is what they want to connect to the cloud. They are the "things" in the "Internet of Things". They generally have sensors and/or actuators for monitoring and controlling something. It is important to get the sensor data to the cloud for recording and analysis so that action can be taken when needed. Depending on the device, this can include sending commands from the cloud to control the actuators in the device.

The Gateway and Edge Computer

The gateway and edge computers are communications hubs that pass data from the devices to the cloud. They connect to the devices using wired connections, such as RS-232, RS-485, Modbus, I2C or Dallas 1-Wire. Or they communicate wirelessly using protocols such as Bluetooth, ZigBee, Thread or even proprietary protocols. They communicate to the cloud using Ethernet, Wi-Fi or cellular technologies.

Gateways are simple devices that only pass data between the cloud and the device. They don't have the computing power to do much more than exception reporting, but are lower cost and lower power. Edge computers are typically Linux-based embedded computers that have the horsepower to perform some edge analytics before passing data to the cloud. Depending on the application, they can have the intelligence to make local decisions, without having to communicate with the cloud servers and wait for a decision to be made there and then pushed down to the field.

Cloud Connectivity

This seemingly simple term is deceptive. It hides a host of complex technical challenges and even more important security considerations. This block is how the gateway or edge computer talks to a server on the Internet (in the cloud) and secures that communication against unauthorized access. The most common communication methods are Ethernet, Wi-Fi and cellular. The protocols they use to talk to each other and secure the links are quite involved.

Cloud Computing

This is a nebulous term that refers to a series of computer servers out on the Internet somewhere. It covers several kinds of servers that do different things. There are connectivity servers that manage the connections to the gateways and edge computers out in the field. Database servers store the collected data. Analytics servers analyze the collected data looking for trends and can even predict problems so they can be handled before becoming a crisis. Finally, application servers take the compiled data and generate visualizations and reports that are presented to users through web browsers or dedicated applications on personal computers, tablets, phones or other smart devices.

The Nexcomm Advantage

Modular Wireless Connections

There is no one-size-fits-all wireless solution for the IoT. There are several wireless protocols in use on the market and each one was designed for a particular application with a particular set of goals and constraints.

Nexcomm Systems gateways and edge computers are designed with card slots to accept cards that have different radio technologies. This allows the system to support any radio technology (including proprietary protocols) without having to limit it to just a couple or all of them at once. This allows the system to use the protocol that best fits the end application, reducing time, cost and risk.
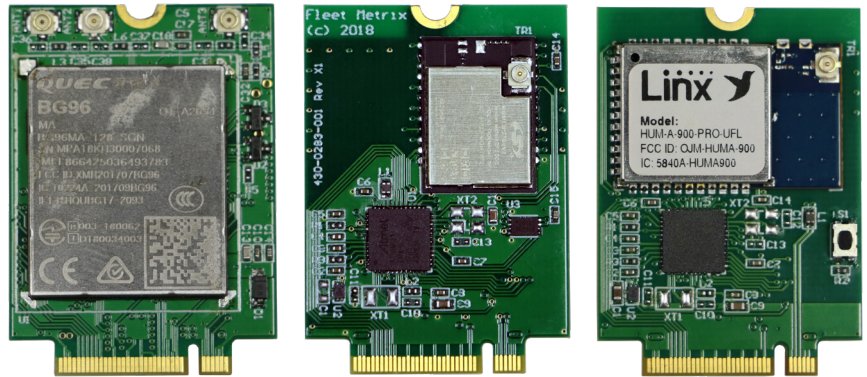
Bundled Air Time

The systems that include cellular connectivity are bundled with air time. There is no need to go out and find another re-seller. Nexcomm Systems offers web-based activations and renewal for a single up-front cost rather than recurring a monthly charge. This increases efficiency as it does not require resources to manage the monthly payments. Automated emails are sent when data limits are approached and when it is time to renew.

Bundled Cloud Services

The Nexcomm Systems cloud services are bundled with the systems as an up-front cost for a certain duration rather than a monthly recurring charge. This makes the payments easier to manage and budget. The cloud services include the full suite; connectivity, database, reports and visualizations. The reports and visualizations can be customized and linked to corporate systems to maintain corporate branding. It is also possible to push the data from our connectivity servers to cloud services owned by our customers. It is necessary for the devices to talk to our connectivity servers to maintain the security of the cloud connectivity link.

Standard Application Bundles

Nexcomm Systems offers ready-made bundles that includes hardware, firmware loads, air time and a cloud software template for many typical applications. This provides our customers a complete system that they can jump into, or a starting point for tweaks that will get them exactly what they want.

Custom Solutions

While Nexcomm Systems offers many ready-made solutions, we can create custom solutions as well. This can be relatively simple, such as a different bundle of technology blocks we already have, to creating completely new technology blocks. Time and cost depend on the details, so contact us to start the discussion.
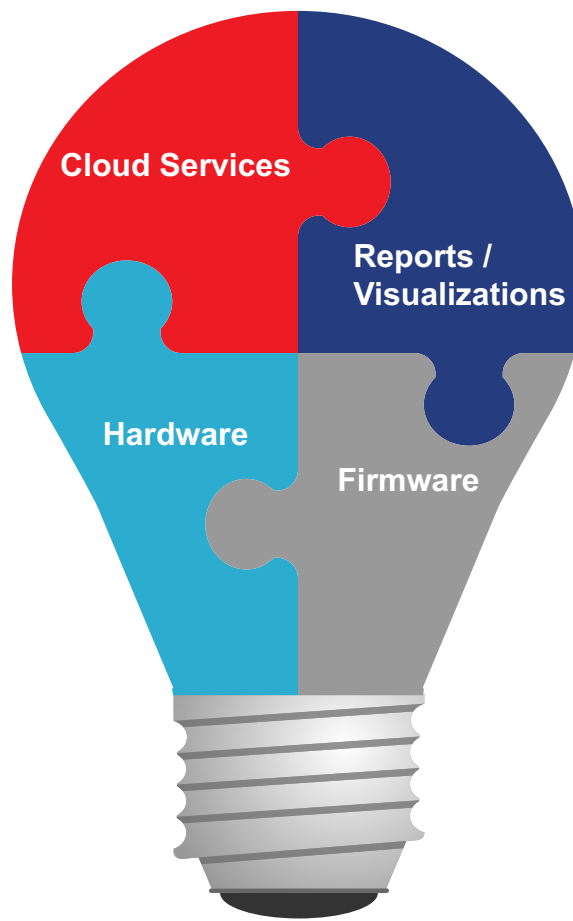
The Nexus System

Nexcomm System's Nexus System consists of a central gateway and a variety of nodes connected over a wireless network. The number and variety of nodes are selected to suit the application, making the system highly flexible. The wireless link is either a customized Thread network or long-range Wi-Fi HaLow. The gateway communicates with cloud servers over a CAT-1 cellular modem, which provides plenty of bandwidth for real-time monitoring.

Standard nodes include an RS-485 / RS-232 serial node, an accelerometer node, a CAN communications node, a sensor hub, and a CT and RTD monitoring node. Custom nodes can be developed for specific applications.

This plug-and-play approach allows the system to be tailored to specific applications using standard, off-the-shelf components. This means faster time to market and lower cost with little to no custom hardware or embedded software development.

Housed in rugged aluminum enclosures, the system is designed for harsh industrial environments.
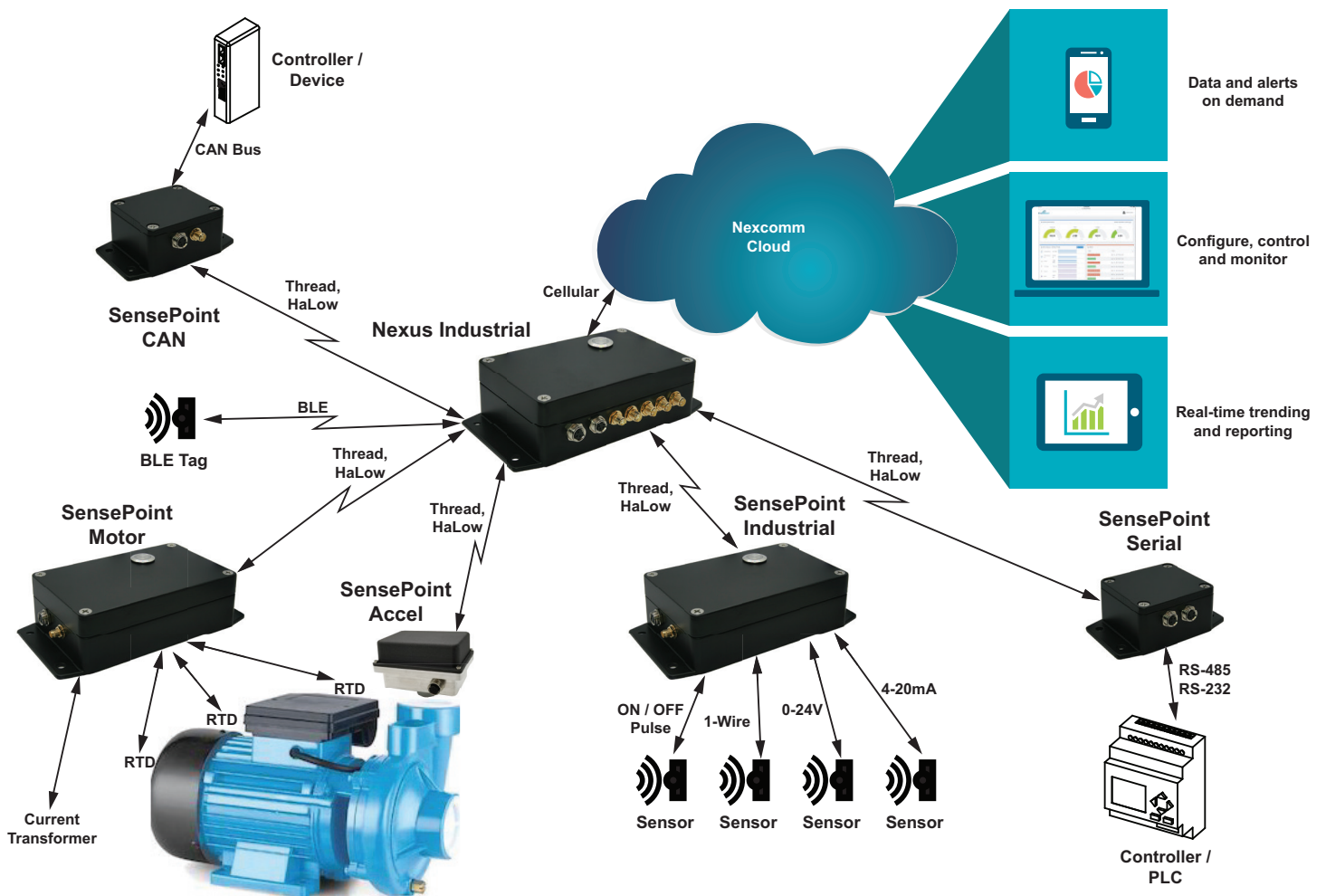
Nexus Gateways

Nexus Industrial

The Nexus Industrial gateway communicates with SensePoint nodes over Wi-Fi HaLow or a customized Thread wireless network. It uses a CAT-1 cellular modem to communicate with cloud servers.

It has RS-485, Ethernet, Wi-Fi, and USB for communications with peripheral devices.

Housed in an IP67/68 diecast aluminum enclosure, the Nexus Industrial is ruggedized for harsh industrial environments.

Specifications
- 7 to 36VDC
- CAT-1 Cellular Modem
- 1 RS-485 Channel
- 1 10/100 Ethernet Port
- Bluetooth, Thread, HaLow options
- Wi-Fi b/g/n
- GPS
- 1 USB Port
- Open WRT Linux OS
- 3.14 x 4.90 x 1.59 Inches
- Diecast Aluminum Enclosure
- Rated to IP67 / IP68
- Mounting Flange

Nexus Panel
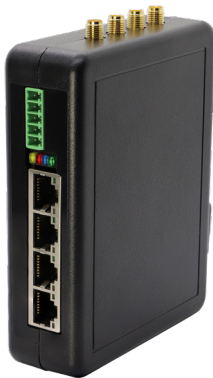
The Nexus Panel gateway is designed in a DIN rail enclosure for mounting in any standard control panel. With one USB channel and one RS-485 channel, it can easily interface to a wide range of PLCs, motor controllers and pump controllers. A digital input can be used as an alarm or trigger and a digital output can be used to trigger an external controller.

The Nexus Panel can accept one of two daughter cards. One is a 4-port Ethernet switch and the other is an RTD / CT card for monitoring DC motors and pumps. The monitoring card has three PT100 RTD temperature sensor inputs and three inputs that can switch between 1V current transformers or 4-20mA sensors.

It comes standard with a CAT-1 cellular modem as well as GPS, Wi-Fi, Thread and Bluetooth, but can also support Wi-Fi HaLow and a long-range 900MHz link.

Specifications
- 9-36VDC
- CAT-1 Cellular Modem
- 1 USB Port
- 1 RS-485 Channel
- 1 Digital Input; 1 Output
- Bluetooth, Thread, HaLow options
- Wi-Fi b/g/n
- GPS
- DIN Rail Mount Enclosure
- 4.50 x 3.50 x 1.25 Inches

With Ethernet Card
- 4-Port 10/100 Ethernet Switch

With CT / RTD Card
- 1 10/100 Ethernet Port
- 3 PT100 RTD Inputs
- 1 4-20mA or 0-10V Input
- 3 4-20mA or 0-1V Inputs
- 2 36V Digital / Pulse Inputs
- 1 Digital Output Current Sink

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SensePoint Nodes

SensePoint Accel

The SensePoint Accel node includes a three-axis accelerometer for vibration measurements in Condition Based Monitoring (CbM) applications. With a 6kHz bandwidth and 16g dynamic range, the SensePoint Accel is suitable for monitoring for bearing faults as well as imbalance and misalignment. It offers multiple mounting options using studs for tapped holes or epoxy. Battery power or back-up battery options are available. The SensePoint Accel communicates with a Nexus gateway over a Wi-Fi HaLow or customized Thread wireless link.

Specifications
- 9 to 36VDC
- Bluetooth, Thread, HaLow options
- 3-axis, 6kHz, 16g accelerometer
- 2.65 x 3.65 x 1.2 Inches (2.0-inch height with battery) plus mounting hardware height
- Mounting Flange
- Option for battery power or battery backup

SensePoint CAN

The SensePoint CAN node has one CAN channel for communication to controllers and devices on a CAN bus. It communicates with a Nexus gateway over a Wi-Fi HaLow or customized Thread wireless link. This allows messages to be passed from a cloud server to the connected device through the Nexus system.

Specifications
- 9 to 36VDC
- 1 CAN Channel
- Bluetooth, Thread, HaLow options
- 1.77 x 1.97 x 1.12 Inches
- Diecast Aluminum Enclosure
- Rated to IP67 / IP68
- Mounting Flange

SensePoint Industrial

The SensePoint Industrial node offers 4 channels of 4-20mA analog inputs, 4 channels of 0-24V analog inputs and four channels that are 0-48V digital inputs. A single Dallas 1-Wire channel enables operation with digital sensors. A 50V power input makes it compatible with 48V industrial systems. It communicates with a Nexus gateway over a Wi-Fi HaLow or customized Thread wireless link for configuration and sensor measurements.

Specifications
- 9-50VDC
- 4 4-20mA inputs
- 4 0-24V analog inputs
- 4 0-48V digital inputs
- 1 Dallas 1-Wire Channel
- Bluetooth, Thread, HaLow options
- 3.14 x 4.90 x 1.59 Inches
- Diecast Aluminum Enclosure
- Rated to IP67 / IP68
- Mounting Flange

SensePoint Motor

The SensePoint Motor node has three 1V CT channels and eight PT100 RTD channels. It is designed to verify the health of electric motors by monitoring the motor currents and temperatures of various components. It communicates with a Nexus gateway over a Wi-Fi HaLow or customized Thread wireless link.

Specifications
- 9 to 36VDC
- 3 1V CT Channels
- 8 PT100 RTD Channels
- 1 24VAC / DC digital input
- 1 3.3V resistive, pulse input
- Bluetooth, Thread, HaLow options
- Option for battery power or battery backup
- 3.14 x 4.90 x 1.59 Inches
- Diecast Aluminum Enclosure
- Rated to IP67 / IP68
- Mounting Flange

SensePoint Serial

The SensePoint Serial node has one RS-485 and one RS-232 channel for communication to controllers, PLCs, or sensors. It communicates with a Nexus gateway over a Wi-Fi HaLow or customized Thread wireless link. This allows serial commands and data to be passed from a cloud server to the connected device through the Nexus system.

Specifications
- 9 to 36VDC
- 1 RS-485 Channel
- 1 RS-232 Channel
- Bluetooth, Thread, HaLow options
- 1.77 x 1.97 x 1.12 Inches
- Diecast Aluminum Enclosure
- Rated to IP67 / IP68
- Mounting Flange

NEXCOMM Systems

EdgePoint Products

The EdgePoint Products are self-contained cellular gateways and sensor hubs. They are designed for stand-alone operation in industrial and agricultural applications.

These devices connect directly to a variety of sensors and report their measurements to the Cloud over the cellular network. Some of them also have digital communications channels for connection to controllers, drives, PLCs and digital sensors. This simplifies the addition of monitoring to new and existing systems.

The EdgePoint Products support several wireless protocols, including Wi-Fi, Bluetooth Low Energy, Thread, and Wi-Fi HaLow. CAT-1 or CAT-M1 cellular modems connect the devices to cloud servers. They also have GPS for positioning services.

Housed in IP67 / 68 enclosures, the EdgePoint Products are ruggedized for harsh industrial and outdoor environments. This makes them ideal for adding monitoring to agricultural and industrial IoT applications.

TrackPoint Mobile
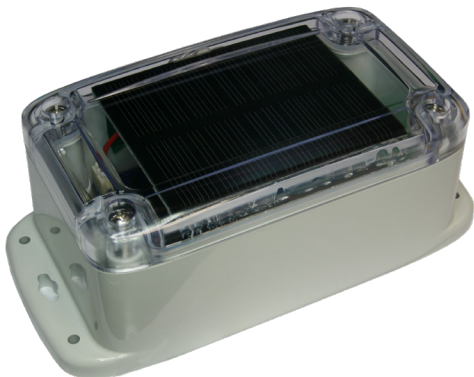
The TrackPoint Mobile is a small discreet mobile tracker that reports its GPS location on a configurable interval. It has a motion sensor that allows it to sleep until it detects movement. This allows it to last for up to three years on a D-cell primary battery or longer on a solar rechargeable 18650 battery.

It has a single input that allows it to monitor sensors with a variable resistance, pulse or bridge output. This makes it ideal for tracking mobile trailers, signs, generators and much more.

Specifications
- Solar and Primary Battery Options
- Motion Sensor
- 1 Sensor Input (3.3V level)
- CAT-M1 Cellular Link
- GPS
- 4.50 x 2.63 x 2.05 Inches
- Mounting Flange
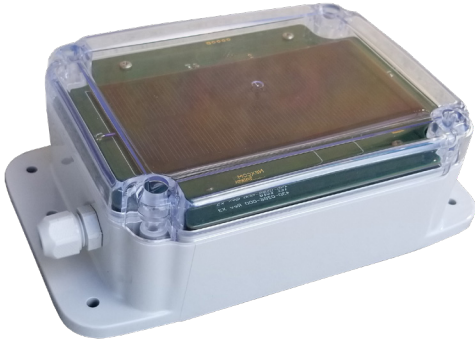
EdgePoint RTU

The EdgePoint RTU is a generic hub for monitoring and control. It can control solenoids and valves for irrigation, agriculture and pumping applications. It can interface to a wide array of sensors for monitoring anything from HVAC systems to landfills and waterways. An integrated solar power option makes the EdgePoint RTU ideal for remote monitoring. It uses a CAT-M1 cellular link for greater range than previous systems. Optionally it has long-range radios to aggregate remote sensors and connect to the cloud, creating a complete solution for monitoring and control. Housed in an IP67 enclosure, the EdgePoint RTU is ruggedized for outdoor environments.

Specifications
- Solar and Primary Battery
- 2 card slots
- 1 RS-232 Channel
- 1 RS-485 Channel
- 2 Latching Relays
- 2 H-Bridges
- 1 I2C Channel
- 1 Dallas 1-Wire Channel
- 4 Inputs; 0-10V or 4-20mA
- 2 Digital inputs, up to 30V
- CAT-M1 Cellular Modem
- GPS
- 4.63 x 6.13 x 2.43 Inches
- Mounting Flange

EdgePoint Industrial
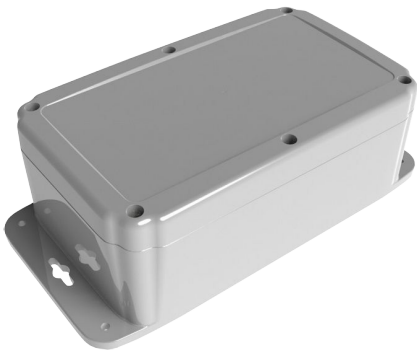
The EdgePoint Industrial controller offers a large assortment of connections for monitoring and controlling pumps and equipment. The RS-232, RS-485, Dallas 1-Wire, I2C and I\Os connect to most sensors and control systems. It supports Ethernet and Wi-Fi to connect devices to the cloud through a cellular link. Housed in an IP67 enclosure, the EdgePoint Industrial is ruggedized for outdoor environments.

Specifications
- 110VAC or 12VDC
- 3 card slots
- 16 AC Inputs
- 3 Double Throw Relays
- 3 RS-232 or RS-485 Channels
- 4 Digital Sinks
- 4 Analog Inputs
     1 4-20mA
     3 4-20mA or 1V
- 1 10/100 Ethernet Channel
- 1 I2C Channel
- 1 Dallas 1-Wire Channel
- Wi-Fi b/g/n
- CAT-1 Cellular Modem & GPS
- 5.25 x 10.24 x 3.31 Inches

NEXCOMM Systems

ConnectPoint Products

Nexcomm System's ConnectPoint products offer long-range cable replacement for industrial applications. Using the new Wi-Fi HaLow standard, these robust products can send data at over 5MBps up to half a mile or lower speeds at up to a mile. This offers wire replacement to lower installation costs and maintenance.

The ConnectPoint AP access point controls the network and acts as the central hub. It is associated with one or more ConnectPoint Stations, which are connected to remote devices.

They offer both Ethernet and RS-485 ports to wire to external devices, such as drives, controllers and PLCs. Ethernet is on a standard RJ-45 connector. RS-485 is on a 4-pin M8 connector.

They pass data straight through, so they are protocol agnostic. They can be used with Modbus, BACnet, PROFIBUS, Modbus TCP and any other protocol that uses Ethernet or RS-485.

Housed in rugged aluminum enclosures, the system is designed for harsh industrial environments.
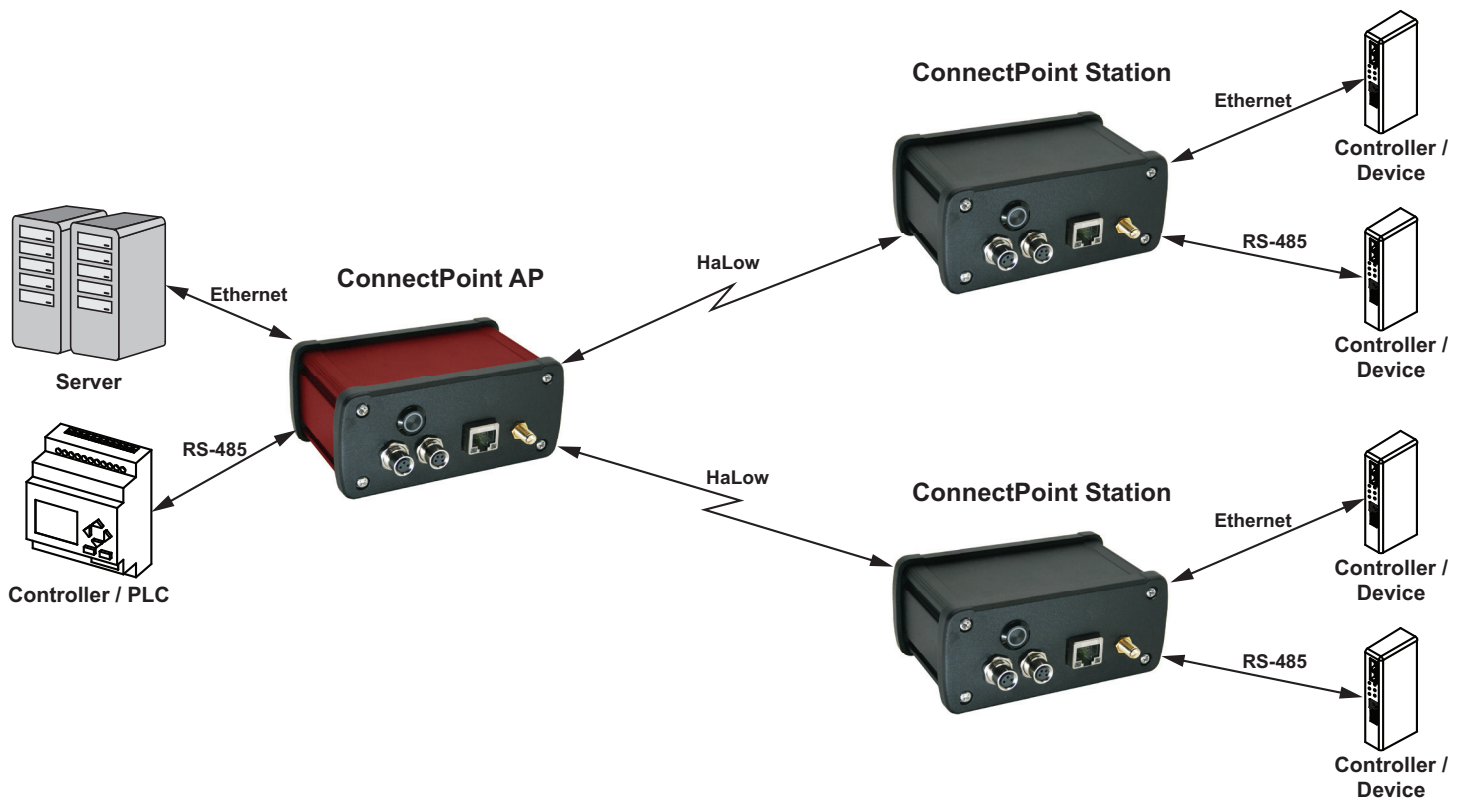
ConnectPoint AP

The ConnectPoint AP access point serves as the heart of the ConnectPoint system. It establishes the HaLow network and controls the network parameters. It connects to a ConnectPoint Station or another ConnectPoint AP either individually or simultaneously. One ConnectPoint AP is required in every network. It supports over 1,000 stations on the network.

Specifications
- 9-32VDC, 3-pin M8 Female Connector
- 1 RS-485 Channel, 4-pin M8 Female Connector
- 1 10/100 Ethernet Port, RJ-45 Connector
- Wi-Fi HaLow, RP-SMA connector
- Extruded Aluminum Enclosure
- Optional Flange Mounting or DIN Rail Mounting Kits
- Rated to IP66
- 2.72 x 4.53 x 2.03 Inches

As a Wi-Fi HaLow access point, it controls and manages the connections to the other devices. When a button is pressed on both devices, they automatically find each other. The access point sends the other device the network parameters, such as channel, bandwidth, and encryption key. Both devices then go to normal operation and start communicating.

The ConnectPoint AP has both Ethernet and serial RS-485 ports. The Ethernet port is a waterproof RJ-45 jack for standard CAT-5 or CAT-6 cables. The RS-485 port is a 4-pin female M8 connector.

The ConnectPoint AP simply passes any data received on the ports to the HaLow link and vice versa. It does not decode or decrypt the data in any way. This makes it suitable for any application or protocol using these physical transport layers, such as Modbus 485, Modbus TCP, BACnet, PROFINET, PROFIBUS and others.

Housed in an IP66 extruded aluminum enclosure, the ConnectPoint AP is ruggedized for harsh industrial environments.

NEXCOMM
Systems

ConnectPoint Station

The ConnectPoint Station is an end point in the HaLow network. It is a bridge between a HaLow network and both Ethernet and RS-485 networks, automatically passing data between the networks. It communicates with a ConnectPoint AP to act as a cable replacement between end devices.

Any data presented on the RS-485 port is sent to the ConnectPoint AP over Wi-Fi HaLow and output on its RS-485 port. Likewise, any data on the Ethernet port is output on the Ethernet port on the other side. It is also possible to configure the ConnectPoint devices to send data from Ethernet on one side to RS-485 on the other side, and vice versa.

Specifications
- 9-32VDC, 3-pin M8 Female Connector
- 1 10/100 Ethernet Port, RJ-45 Connector
- 1 RS-485 Channel, 4-pin M8 Female Connector
- Wi-Fi HaLow, RP-SMA connector
- Extruded Aluminum Enclosure
- Optional Flange Mounting or DIN Rail Mounting Kits
- Rated to IP66
- 2.72 x 4.53 x 2.03 Inches

The ConnectPoint Serial does not decode, decrypt, or interpret the data, so it can be used with any protocol based on the RS-485 or Ethernet physical connection. This includes Modbus 485, Modbus TCP, BACnet, PROFINET, PROFIBUS and others.

The RS-485 port is a 4-pin female M8 connector. The Ethernet port is a waterproof RJ-45 jack for standard CAT-5 or CAT-6 cables. Housed in an IP66 extruded aluminum enclosure, the ConnectPoint Station is ruggedized for harsh industrial and outdoor environments. Combined with the extraordinary range and throughput of Wi-Fi HaLow, this makes the ConnectPoint Station ideal for wirelessly connecting drives, controllers, and PLCs in industrial communications networks.

Wi-Fi HaLow

Wi-Fi CERTIFIED HaLow™ for IoT

Features
- Sub-1 GHz spectrum operation
- Narrow band OFDM channels
- Several device power saving modes
- Native IP support
- Latest Wi-Fi® security

Benefits
- Long range: approximately 1 km
- Penetration through walls and other obstacles
- Supports coin cell battery devices for months or years
- No need for proprietary hubs or gateways

Source: Wi-Fi Alliance®

The 802.11ah specification or Wi-Fi HaLow, was released by the Wi-Fi Alliance in 2017. It is best described as "sub-GHz long-range Wi-Fi". It takes the features that have made Wi-Fi one of the most successful wireless protocols and brings it into lower frequency bands. It fills a gap by offering much better range than Bluetooth and IEEE 802.15.4 radios while offering much better data throughput than protocols like ZigBee, Thread and LoRa. This allows it to offer several distinct advantages.

Range – In general, lower frequencies offer better range and penetration through obstructions in the environment. By moving into the 800MHz and 900MHz bands, HaLow offers much better range and performance than traditional 2.4GHz systems as well as newer 5GHz and 6GHz systems.

Data Throughput – The first-generation Wi-Fi HaLow chipsets can push data at up to 10MBps, which is much faster than protocols like Bluetooth, ZigBee, Thread, and LoRa

Power Consumption – Power is critical in battery powered IoT products. The peak power of HaLow is higher than other radios, but because its throughput is much higher, its total on time is much shorter. This puts HaLow's power per bit efficiency higher than any of the other popular protocols.

Scalability – HaLow has been tested at over 1,000 nodes on one access point. Most IoT systems can intelligently manage 250 to 350 nodes.
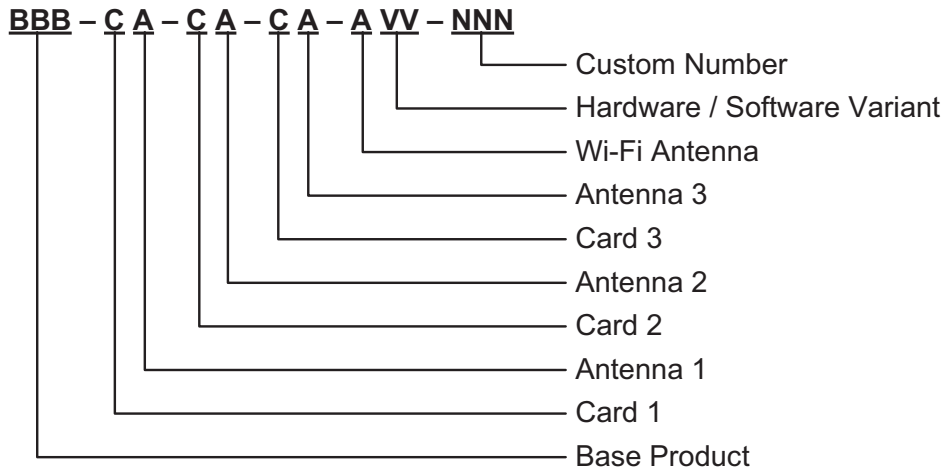
Security – Wi-Fi has led advances in security over the years and HaLow benefits from this experience. Wi-Fi HaLow uses WPA3 and Wi-Fi Enhanced Open, the highest level of security developed for the latest Wi-Fi generation.

For a more detailed look at Wi-Fi HaLow, please see:

www.nexcommsys.com/wi-fi-halow-long-range-wi-fi

NEXCOMM Systems

Part Numbering

The Nexcomm Systems part numbering reflects the modular nature of our gateways and edge computers. Start with the base product, add up to 2 (ConnectPoint) or 3 (EdgePoint) cards, and select a variant where applicable. An optional custom field is also included for products with custom software, labeling or other features.

BBB – C A – C A – C A – A VV – NNN

- Custom Number
- Hardware / Software Variant
- Wi-Fi Antenna
- Antenna 3
- Card 3
- Antenna 2
- Card 2
- Antenna 1
- Card 1
- Base Product

Card	Code
None	0
CAT-M1 Cell Modem	1
Bluetooth	2
HumPRO	3
Thread	6
Wi-Fi HaLow	7
CAT-1 Cell Modem	A
CAN controller / transceiver	B

Antenna Option	Code
None	0
Internal Antenna	A
External SMA or RP-SMA Connector	B
LTE Internal, Internal Active GPS	C
LTE Internal, External GPS	D
LTE External, Internal Passive GPS	E
LTE External, Internal Active GPS	F

Wi-Fi Antenna	Code
None	N
External Antenna	E
Internal Antenna	I

Example:

RTU-1E-2A-00-N06-000

EdgePoint RTU, LTE card with external LTE and internal GPS antennas, Thread card with internal antenna, with the basic solar power board.

Standard Products

Nexus Industrial

EPN-AB-6B-00-E01-000	Nexus Industrial with LTE card, external LTE and GPS antennas, with Thread and external antenna, external Wi-Fi antenna, Ethernet
EPN-AB-6B-00-E02-000	Nexus Industrial with LTE card, external LTE and GPS antennas, with Thread and external antenna, external Wi-Fi antenna, RS-485
EPN-AB-6B-7B-E01-000	Nexus Industrial with LTE card, external LTE and GPS antennas, with Thread and external antenna, with HaLow card and external antenna, external Wi-Fi antenna, Ethernet
EPN-AB-6B-7B-E02-000	Nexus Industrial with LTE card, external LTE and GPS antennas, with Thread and external antenna, with HaLow card and external antenna, external Wi-Fi antenna, RS-485

Nexus Panel

EPP-AB-00-00-E01-000	Nexus Panel with LTE card, external LTE and internal GPS antennas, external Wi-Fi antenna
EPP-AB-00-00-E01-000	Nexus Panel with 4-port Ethernet switch, LTE card, external LTE and internal GPS antennas, external Wi-Fi antenna
EPP-AB-7B-00-E01-000	Nexus Panel with LTE card, external LTE and internal GPS antennas, with HaLow card and external antenna, external Wi-Fi antenna
EPP-AB-7B-00-E02-000	Nexus Panel with 4-port Ethernet switch, LTE card, external LTE and internal GPS antennas, with HaLow card and external antenna, external Wi-Fi antenna

EdgePoint Industrial

EPI-AB-00-00-I01-000	12-24V EdgePoint Industrial with LTE card, external LTE and internal GPS antennas, internal Wi-Fi antenna
EPI-AB-00-00-I02-000	120V EdgePoint Industrial with LTE card, external LTE and internal GPS antennas, internal Wi-Fi antenna

EdgePoint RTU

RTU-1E-00-00-N05-000	EdgePoint RTU with two switched inputs, two 4-20mA inputs, LTE card, external LTE and internal GPS antennas
RTU-1E-00-00-N06-000	EdgePoint RTU with two switched inputs, two 4-20mA inputs, basic solar, LTE card, external LTE and internal GPS antennas
RTU-1E-00-00-N07-000	EdgePoint RTU with two switched inputs, two 4-20mA inputs, battery backup, LTE card, external LTE and internal GPS antennas

TrackPoint Mobile

TPM-1A-00-00-N01-000	TrackPoint Mobile with LTE card, internal LTE and GPS antennas, primary battery
TPM-1A-00-00-N02-000	TrackPoint Mobile with LTE card, internal LTE and GPS antennas, solar charging

SensePoint Nodes

SCA-6B-00-00-E01-000	SensePoint CAN with Thread, standard external antenna
SPI-6B-00-00-E01-000	SensePoint Industrial with Thread, standard external antenna
SPM-6B-00-00-E01-000	SensePoint Motor with Thread, standard external antenna
SPS-6B-00-00-E01-000	SensePoint Serial with Thread, standard external antenna

ConnectPoint

CPA-7B-00-00-I01-000	ConnectPoint AP Industrial Wi-Fi HaLow Access Point with RS-485 and Ethernet
CPS-7B-00-00-N01-000	ConnectPoint Station Industrial Wi-Fi HaLow Station with RS-485 and Ethernet

NEXCOMM Systems

NEXCOMM SYSTEMS, LLC LIMITED WARRANTY
Nexcomm Systems supplied products are warranted to be of good quality materials and workmanship. As with any monitoring or control system, the purchase, installation and use of Nexcomm Systems telemetry equipment and other Nexcomm Systems systems is NOT AN INSURANCE POLICY. You have purchased dependable instrumentation and with normal care, it will provide long and faithful service and enhance the preventive maintenance program on your valuable equipment.

Limited Warranty
Nexcomm Systems Manufactured Products. Nexcomm Systems warrants all Nexcomm Systems products that it determines to be defective in materials and/or workmanship, under normal use, for a period of TWO years from date of manufacture unless otherwise stated.

During the warranty period, at its sole option, Nexcomm Systems will use reasonable efforts to repair or replace any defective product; provided, however, that the customer has returned the defective product to Nexcomm Systems, shipping costs prepaid. Any repair or replacement, at Nexcomm Systems's option, shall be the customer's sole and exclusive remedy. We are not responsible for damage caused by improper installation, neglect or abuse and are limited under warranty to repairing or replacing the item only. We are not liable for equipment on which this product is installed.

Product Return
Before returning any product customer believes is defective, customer must provide to Nexcomm Systems details of the warranty claim situation, a complete description of the product, details from the Model Number label attached to each product, including Serial Number and MAC address and obtain from Nexcomm Systems a Warranty/Return Material Authorization Number (RMA Number).

Any claim for shortage or damage to shipment must be accompanied by the packing slip within 15 days of receipt or invoice date, whichever is later. Damages in shipment are the responsibility of the carrier, and customer must make claim directly with the carrier.

Warranty Disclaimer
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