Deliver the Reliability of Niagara 4 to the Edge

JENEsys® Edge™ products are a new generation of IoT controllers combining the Niagara Framework® with Lynxspring’s Onyxx® platform. A first-of-its-kind, the JENEsys Edge 534 with Monnit is a fully programmable Niagara 4 controller with 34 IO built in and expandable IO available, delivering edge connectivity, interoperability, data access and analytics for today’s buildings, energy management, machine-to-machine applications and IoT environments. Taking Niagara 4 to the edge with real-time control—the JENEsys Edge 534 with Monnit utilizes the same Niagara ProBuilder/Niagara Workbench software, Niagara 4 programming tools and Fox Protocol. JENEsys Edge products are available to any certified Niagara integrator or contractor.

Connect & Access Data—Anytime, Anywhere

Purpose-built, Lynxspring’s JENEsys Edge 534 with Monnit delivers edge connectivity, data access and control for today’s small to mid-sized facilities, plant control, machine-to-machine and IoT applications that require smart edge technology.

Reduce Engineering Time & Installation Costs

The JENEsys Edge 534 with Monnit combines Niagara 4 and Onyxx, a proven IoT edge hardware platform, enabling facility managers, operators, system integrators and contractors to use a known user interface (ProBuilder/Workbench) to achieve operational efficiencies between multiple systems and/or devices, facility management functions, equipment control and business applications. The bottom line is that the JENEsys Edge 534 with Monnit licensing is well-suited to take Niagara 4 into smaller or mid-sized and price-sensitive applications.

Features

- JENEsys = fully programmable Niagara 4 controller
  - Fox Protocol
  - Same Programming Tools—ProBuilder/Workbench
- 34 points of IO on-board, enables an Onyxx Network, and connects to up to 100 Monnit ALTA wireless sensors
- Add to a JENE-EG534-WL-M, up to 8 Onyxx XM 34IO extender modules (at 34 points of IO each) for a maximum of 306 points
- Fast & increased memory capacity
- Small unit footprint (4.5” x 4.25” x 2.25”)
- Real-time Linux OS

Monnit Sensor Information

For more information on the Monnit ALTA sensors, please refer to the additional documentation on our website.
## Specifications

### PLATFORM
- Operating System: Helix® Framework by Lynxspring® and Niagara 4.4/4.6
- Processor: 1 GHz AM335x ARM Cortex A8
- Memory: 512 MB DDR3L 800 MHz, 4 GB 8-bit Embedded MMC on-board Flash
- Real-Time Clock (RTC): Battery-powered clock included to store description/setup values including year, month, date, hours, minutes and seconds

### COMMUNICATION PORTS
- 2 Ethernet Ports: 10/100 Mbps (RJ-45 Connector)
- RS-485 Port: RS-485 serial port with 3-screw connector
- Mini-B USB: USB Client Connector utilizes 5-pin Mini-B USB cable
- Micro USB: Serial shell access
- Onyx Network: 3-wire (LxH LxL SHLD) high-speed differential serial signal
- Antenna: Reverse-polarity SMA antenna connector

### INPUTS AND OUTPUTS
- **16 Universal Inputs**: Type-3 10 K ohm thermistors: resistance 0-100 K ohms; 0-10 Vdc; 0-20 mA using a 499-ohm resistor; pulse input: up to 500 Hz; 12-bit A/D resolution
- **10 Digital Outputs**: Form A contacts, 24 V at 0.5 A
- **8 Analog Outputs**: 0-10 Vdc
- **Connector Screw Size**: 3/32” slotted
- **Supported Wire Size**: 28-16 AWG
- **Housing**: UL94V-0

### POWER
- **Power Input**: External 24 Vac/dc +10%/-10%, 50/60 Hz, minimum 18 VA/device

### CHASSIS
- **Construction**: Base: Plastic, DIN rail or screw mount  
  Cover: Plastic
- **Cooling**: Internal air convection
- **Dimensions (without antenna)**: 4.5” (11.43 cm) width x 2.25” (5.72 cm) depth
- **Mounting**: Flat panel and 35 mm DIN rail mounting options standard

### ENVIRONMENT
- **Operating Temperature**: 0 – 60 °C (32 – 140 °F)
- **Storage Temperature**: 0 – 70 °C (32 – 158 °F)
- **Relative Humidity Range**: 5 – 95% RH, non-condensing

### CERTIFICATIONS
- **Compliance**: Approved: FCC 47 CFR Parts 15C and 18, EN 55022, EN 55011, ICES-003, RoHS, UL 916, CSA C22.2 No. 205-17, EN 61010-1: 2010 IEC 61010-1, 3rd edition; Monnit radio FCC ID: ZTL-G2SC1

### WEIGHT
- **JENE-EG534-WL-M**: 0.9 pounds  
  Product and Packaging: 1.6 pounds

### Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBER(S)</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>JENE-EG534-WL-M-100</td>
<td>Packaging will include one (1) JENEsys Edge 534 with Monnit Controller (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)</td>
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<tr>
<td>JENE-EG534-WL-M-250</td>
<td>Packaging will include one (1) JENEsys Edge 534 with Monnit Controller (LICENSE WITH MAXIMUM OF 250 POINTS, 5 DEVICES)</td>
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<tr>
<td>JENE-EG534-WL-M-300</td>
<td>Packaging will include one (1) JENEsys Edge 534 with Monnit Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 5 DEVICES)</td>
</tr>
<tr>
<td>HDR-30-24</td>
<td>Power Supply for one JENEsys Edge 534 and one Onyx XM 34IO</td>
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<tr>
<td>HDR-60-24</td>
<td>Power Supply for one JENEsys Edge 534 and three Onyx XM 34IOs</td>
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<tr>
<td>HDR-100-24</td>
<td>Power Supply for one JENEsys Edge 534 and eight Onyx XM 34IOs</td>
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