Deliver the Reliability of Niagara® 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 is a fully programmable Niagara 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 to the edge with real-time control—the JENEsys Edge 534 utilizes the same familiar ProBuilder/Workbench software, Niagara 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 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 combines Niagara 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 licensing is well-suited to take Niagara into smaller or mid-sized and price-sensitive applications.

Features

- JENEsys = fully programmable Niagara controller
  - Fox Protocol
  - Same Programming Tools—ProBuilder/Workbench
- 34 points of IO on-board and enables an Onyxx Network
- Add to a JENE-EG534, up to 8 additional 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
Specifications

**Dimensions**

- **Operating System:** Helixx® Framework by Lynxspring® and Niagara® AX 3.8.111/3.8.401
- **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)
- **2 RS-485 Ports:** 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
- **Onyxx Network:** 3-wire (LiH X Lx L SHLD) high-speed differential serial signal

**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**

- **Input:** External 24 Vac +0%/-10%, dc +10%/-10%, minimum 18 VA/device

**Chassis**

- **Construction:** Base: Plastic, DIN rail or screw mount
- **Cooling:** Internal air convection
- **Dimensions:** 4.5” (11.43 cm) width x 4.25” (10.8 cm) length 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 47CFR Parts 15B 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

**Weight**

- **JENE-EG534:** 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-EG534-100U</td>
<td>Packaging will include one (1) JENEsys Edge 534 Controller</td>
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<td>JENE-EG534-1250</td>
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<td>JENE-EG534-5000</td>
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<tr>
<td>HDR-30-24</td>
<td>Power Supply for one 534 and one XM</td>
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<tr>
<td>HDR-60-24</td>
<td>Power Supply for one 534 and three XMs</td>
</tr>
<tr>
<td>HDR-100-24</td>
<td>Power Supply for one 534 and eight XMs</td>
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