JENEsys® Edge™ 534 – N4
PRODUCT DATA SHEET

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 – N4 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 – N4 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 – N4 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 – N4 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 – N4 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 and enables an Onyxx Network
- Add to a JENE-EG534-N4, 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

JENEsys Edge 534 – N4 Specifications
- Powered by Niagara 4
- Open NICS
- Standard Niagara 4 drivers—Niagara 4 Network (Fox), BACnet, Modbus, Web & oBIX
- 10 Digital Outputs
  - Form A contacts, 24 V at 0.5 A
- 8 Analog Outputs
  - 0-10 Vdc
- 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
- 10/100 Mbps Ethernet (2), RS-485 (2), Mini-B USB (1), Micro USB (1)
- Standard RS-485 multi-drop communication bus
- 4B eMMC flash memory
- 1GHz AM335x ARM Cortex A-8 Processor
- Existing Niagara 4 stations can be added
- 24 Vac/dc power input, ideal for equipment control and monitoring applications
- Runs on Onyxx®—an extensible platform
- Leverages global capacity licenses
- 35 mm DIN rail or flat panel mounting

Made in USA

JENEsys Edge 534

niagara4

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JENE-EG534-N4-DS-V1.4
## Specifications

### PLATFORM
- **Operating System**: Helixx® Framework by Lynxspring® and Niagara 4.2/4.4.73
- **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 (LxH LxL 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
- **Power Input**: External 24 Vac +0%/-10%, dc +10%/10%, minimum 18 VA/device

### CHASSIS
- **Construction**: Base: Plastic, DIN rail or screw mount  
  Cover: Plastic
- **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, ICES-003, RoHS, UL 916, CSA C22.2 No. 205-17, EN 61010-1: 2010, IEC 61010-1, 3rd edition
- **Vibration and Shock**: 0.006 g 0.1–100 Hz, 1% vibration
- **ESD Protection**: 800 V

### WEIGHT
- **JENE-EG534-N4**: 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-N4</td>
<td>Packaging will include one (1) JENESys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 100 POINTS, UNLIMITED DEVICES)</td>
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<tr>
<td>JENE-EG534-300U-N4</td>
<td>Packaging will include one (1) JENESys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 150 POINTS, 50 DEVICES)</td>
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<td>JENE-EG534-1250-N4</td>
<td>Packaging will include one (1) JENESys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 1,250 POINTS, 25 DEVICES)</td>
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<tr>
<td>JENE-EG534-5000-N4</td>
<td>Packaging will include one (1) JENESys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 5,000 POINTS, 100 DEVICES)</td>
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<tr>
<td>HDR-30-24</td>
<td>Power Supply for one S34 and one XM</td>
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<tr>
<td>HDR-60-24</td>
<td>Power Supply for one S34 and three XMs</td>
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<tr>
<td>HDR-100-24</td>
<td>Power Supply for one S34 and eight XMs</td>
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