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

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JENESys® Edge™ 534 – N4
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Specifications

**PLATFORM**
- Operating System: Niagara 4.4/4.6/4.7
- 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
- Onyx Network: 3-wire (LxH LxL SHLD) high-speed differential serial signal

**INPUTS AND OUTPUTS**
- 16 Universal Inputs: Type-3 10 K ohm thermisters: 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: 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-N4: 0.9 pounds
- Product and Packaging: 1.6 pounds

Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>JENE-EG534-100-N4</td>
<td>Packaging will include one (1) JENESys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)</td>
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<tr>
<td>JENE-EG534-250-N4</td>
<td>Packaging will include one (1) JENESys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 250 POINTS, 5 DEVICES)</td>
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<td>JENE-EG534-300-N4</td>
<td>Packaging will include one (1) JENESys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 5 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>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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