JENEsys Edge 534 Specifications

- Powered by Niagara®
- Open NiCS
- Standard Niagara drivers—Niagara Network (Fox), BACnet, Modbus, Web & oBIX
- Compatible with many additional 3rd party drivers
- 10 Digital Outputs
  - Form A contacts, 24V at 0.5 Amp
- 8 Analog Outputs
  - 0-10 Vdc
- 16 Universal Inputs
  - Type-3 10k ohm thermistors
  - Resistance 0-100 K ohms
  - 0-10 Vdc
  - 0-20 mA using a 499 ohm resistor
  - Pulse input; up to 500Hz
- 10/100 Mbps Ethernet (2), RS-485 (2), USB (2)
- Standard RS-485 multi-drop communication bus
- 4B eMMC flash memory
- 1GHz AM335x ARM Cortex A-8 Processor
- Existing Niagara 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

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
JENEsys® Edge™ 534 – AX
PRODUCT DATA SHEET

Dimensions

Specifications

PLATFORM
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 Inputs: Form A contacts, 24 V at 0.5 A
8 Analog Inputs: 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
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

Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBER(S)</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>JENE-EG534-100U</td>
<td>Packaging will include one (1) JENEsys Edge 534 Controller (LICENSE WITH MAXIMUM OF 100 POINTS, UNLIMITED DEVICES)</td>
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<tr>
<td>JENE-EG534-300U</td>
<td>Packaging will include one (1) JENEsys Edge 534 Controller (LICENSE WITH MAXIMUM OF 300 POINTS, UNLIMITED DEVICES)</td>
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<tr>
<td>JENE-EG534-1250</td>
<td>Packaging will include one (1) JENEsys Edge 534 Controller (LICENSE WITH MAXIMUM OF 1,250 POINTS, 25 DEVICES)</td>
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<tr>
<td>JENE-EG534-5000</td>
<td>Packaging will include one (1) JENEsys Edge 534 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 534 and one XM</td>
</tr>
<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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</tbody>
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