Deliver the Reliability of Niagara® to the Edge

The JENEsys Edge 514 is a fully programmable Niagara controller with 14 IO built in and expandable IO available, delivering edge connectivity, control, data access and analytics for today's buildings, energy management applications, equipment and machine-to-machine applications within a secure environment.

Taking Niagara 4 to the edge with real-time control—the JENEsys Edge 514 utilizes the same familiar ProBuilder/Workbench software, Niagara programming tools and Fox Protocol.

Connect & Access Data—Anytime, Anywhere

Purpose-built, Lynxspring’s JENEsys Edge 514 delivers edge connectivity, control, data access and control for today’s small to mid-sized facilities, plant and equipment control, machine-to-machine applications that require smart edge technology.

Reduce Engineering Time & Installation Costs

The JENEsys Edge 514 combines Niagara 4 with 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.

Features

- Fully programmable Niagara controller; Fox Protocol
- Same Programming Tools—ProBuilder/Workbench
- 14 points of IO on-board and enables an Onyxx Network
- Add up to 8 additional extender modules (at 34 points of IO each) for a maximum of 286 points
- Fast & increased memory capacity
- Small unit footprint
- Real-time Linux OS

JENEsys Edge 514 Specifications

- Powered by Niagara 4
- Open NiCS
- Supports JAVA Web Start
- Standard Niagara 4 drivers—Niagara 4 Network (Fox), BACnet, Modbus, Web & oBIX
- 4 Digital Outputs
  - Form A contacts, 24 V at 0.5 A
- 4 Analog Outputs
  - 0-10 Vdc
- 6 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
- 4G eMMC flash memory
- 1GHz AM335x ARM Cortex A8 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
Specifications

**PLATFORM**
- Operating System: Helix® Framework by Lynxspring® and Niagara®
- Processor: 1 GHz ARM Cortex A8
- Memory: 512 MB DDR2 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**
- 6 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
- 4 Digital Outputs: Form A contacts, 24 V at 0.5 A
- 4 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 +5%/–10% 60Hz, dc +10%/–10%, minimum 18 VA/device

**CHASSIS**
- Construction: Base: Plastic, DIN rail or screw mount
- Cover: Plastic
- Cooling: Internal air convection
- Dimensions: 4.25” (10.8 cm) width x 4.25” (10.8 cm) length x 2.125” (5.4 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: Pending: FCC 47CFR Parts 15B and 18, EN 55022, EN 55011, ICES-003, RoHs. UL 916, CSA C22.2 No. 205-12, EN 61010-1: 2010, IEC 61010-1, 3rd edition

**WEIGHT**
- JENE-EG514: 0.6 pounds 
- Product and Packaging: 0.8 pounds

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART NUMBER(S)</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>JENE-EG514-100</td>
<td>Packaging will include one (1) JENEsys Edge 514 Controller (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)</td>
</tr>
<tr>
<td>JENE-EG514-300</td>
<td>Packaging will include one (1) JENEsys Edge 514 Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 5 DEVICES)</td>
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Revised 8/14/2019
JENE-EG514-DS-V1.2

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