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*.

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
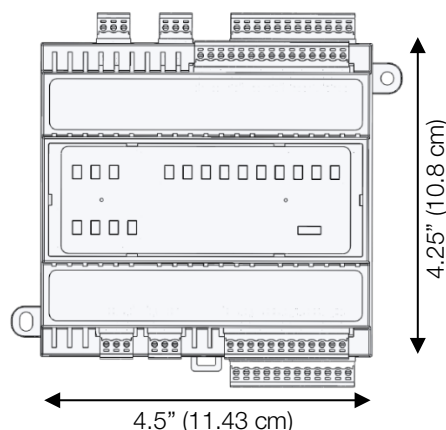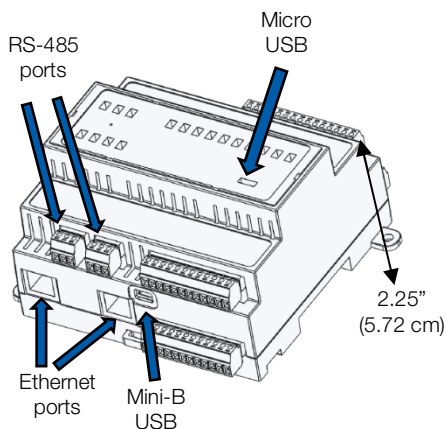
Features

- ✓ 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

Dimensions

RS-485 ports

Micro USB

2.25" (5.72 cm)

Ethernet ports

Mini-B USB

4.25" (10.8 cm)

4.5" (11.43 cm)

JENESYS
edge™
534
By Lynxspring

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
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/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

PART NUMBER(S)	DESCRIPTION
JENE-EG534-100-N4	Packaging will include one (1) JENEsys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)
JENE-EG534-250-N4	Packaging will include one (1) JENEsys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 250 POINTS, 5 DEVICES)
JENE-EG534-300-N4	Packaging will include one (1) JENEsys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 5 DEVICES)
JENE-EG534-1250-N4	Packaging will include one (1) JENEsys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 1,250 POINTS, 25 DEVICES)
JENE-EG534-5000-N4	Packaging will include one (1) JENEsys Edge 534 – N4 Controller (LICENSE WITH MAXIMUM OF 5,000 POINTS, 100 DEVICES)
HDR-30-24	Power Supply for one 534 and one XM
HDR-60-24	Power Supply for one 534 and three XMs
HDR-100-24	Power Supply for one 534 and eight XMs