



JENEsys Edge 534 Specifications

- ✓ Powered by Niagara®
- ✓ Open NiCS
- ✓ Supports JAVA Web Start
- ✓ 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
- ✓ 4G 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 Onyx®—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 Onyx® 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 Onyx, 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*.

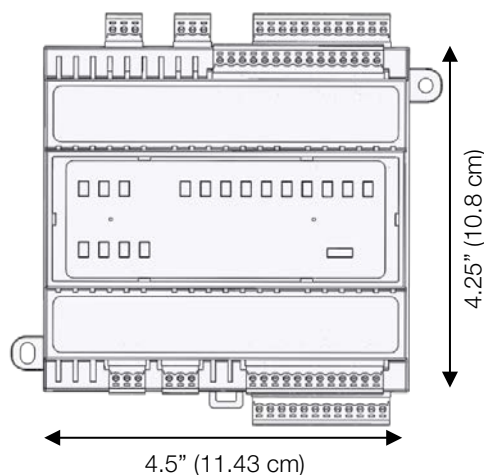
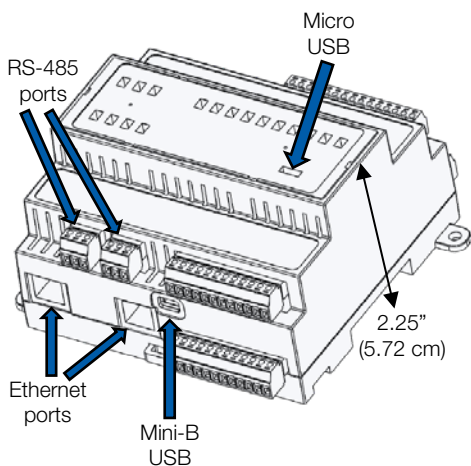
Features

- ✓ JENEsys = fully programmable Niagara controller
 - Fox Protocol
 - Same Programming Tools—ProBuilder/Workbench
- ✓ 34 points of IO on-board and enables an Onyx Network
- ✓ Add to a JENE-EG534, up to 8 additional Onyx 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	
Operating System	Helix [®] Framework by Lynxpring [®] and Niagara [®] AX 3.8.111
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 (<i>RJ-45 Connector</i>)
2 RS-485 Ports	Optically-isolated 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 thermistors; resistance 0-100 K ohms; 0-10 Vdc; 0-20 mA using a 499 ohm resistor; pulse input: up to 500 Hz
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, EN 55011, ICES-003, RoHS, UL 916, CSA C22.2 No. 205-17 In Process: EN 61010-1: 2010, IEC 61010-1, 3rd edition



WEIGHT		
JENE-EG534	0.9 pounds	Product and Packaging 1.6 pounds

Ordering Information

PART NUMBER(S)	DESCRIPTION
JENE-EG534-100U	Packaging will include one (1) JENEsys Edge 534 Controller <i>(LICENSE WITH MAXIMUM OF 100 POINTS, UNLIMITED DEVICES)</i>
JENE-EG534-300U	Packaging will include one (1) JENEsys Edge 534 Controller <i>(LICENSE WITH MAXIMUM OF 300 POINTS, UNLIMITED DEVICES)</i>
JENE-EG534-1250	Packaging will include one (1) JENEsys Edge 534 Controller <i>(LICENSE WITH MAXIMUM OF 1,250 POINTS, 25 DEVICES)</i>
JENE-EG534-5000	Packaging will include one (1) JENEsys Edge 534 Controller <i>(LICENSE WITH MAXIMUM OF 5,000 POINTS, 100 DEVICES)</i>
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

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