



### JENESys Edge 534 Specifications

- ✓ Powered by Niagara®
- ✓ Open NiCS
- ✓ Standard Niagara drivers—Niagara Network (Fox), BACnet, Modbus, Web & oBIX
- ✓ Compatible with many additional 3<sup>rd</sup> 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 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

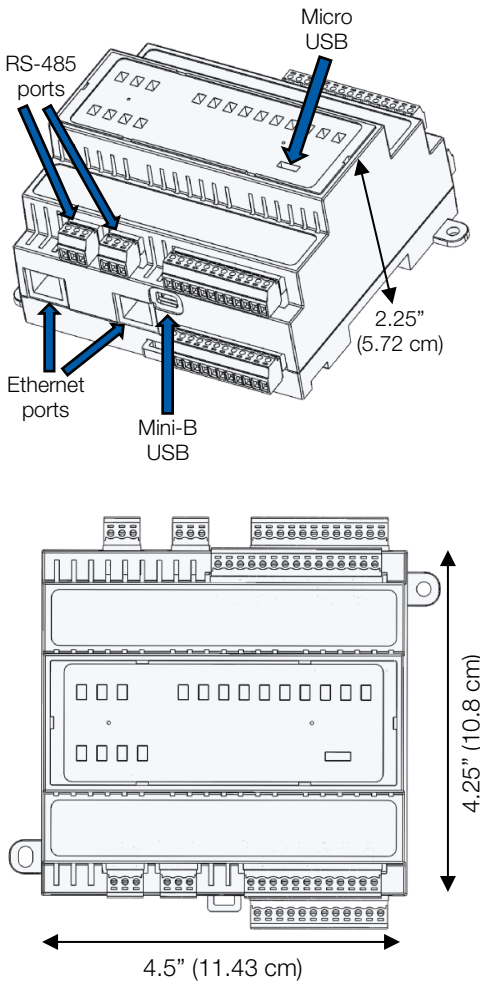
- ✓ JENESys = fully programmable Niagara controller
  - Fox Protocol
  - Same Programming Tools—ProBuilder/Workbench
- ✓ 34 points of IO on-board and enables an Onyx Network
- ✓ Add to a JENE-EG534, up to 8 additional Onyx XM 34IO extender modules (*at 34 points of IO each*) for a maximum of 306 points
- ✓ Fast & increased memory capacity
- ✓ Small unit footprint (*4.5" x 4.25" x 2.25"*)
- ✓ Real-time Linux OS

# JENEsys<sup>®</sup> Edge<sup>™</sup> 534 – AX

## PRODUCT DATA SHEET

Made in USA

### Dimensions



### Specifications

PLATFORM	
Operating System	Helixx <sup>®</sup> Framework by Lynxpring <sup>®</sup> and Niagara <sup>®</sup> AX 3.8.111/3.8.401
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	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; 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 +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, 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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