JENEsys Edge 434

DATA SHEET

JENEsys Edge® 434

niagara4

Features

- Powered by the Niagara Framework®
- N4 licensed for up to 68 points & up to 3 devices with perpetual maintenance included; supports 10:1 supervisor license scheme
- 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
- 4GB 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
- 35 mm DIN rail or flat panel mounting

Deliver the Reliability of Niagara 4 to the Edge

JENEsys Edge products are a new generation of IP controllers combining the Niagara Framework® with Lynxspring's Onyxx® platform.

A first-of-its-kind, the JENEsys Edge 434 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 434 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 434 delivers edge connectivity, data access and control for today's small facilities, smaller plant and equipment control, machine-to-machine and IoT applications that require smart edge technology.

Reduce Engineering Time & Installation Costs

The JENEsys Edge 434 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 to achieve operational efficiencies between multiple systems and/or devices, facility management.

The Bottom Line

JENEsys Edge 434 licensing is perfectly suited to take Niagara 4 into smaller and price-sensitive applications.

Features

- Fully programmable Niagara 4 controller
- Fox Protocol
- Same Programming Tools—ProBuilder/Workbench
- 34 points of IO on-board and enables an Onyxx Network
- Add an Onyxx XM14IO/34IO extender module for additional IO
- Increased memory capacity and speed
- Small unit footprint (4.5" x 4.25" x 2.63")
- Real-time Linux OS

Ordering Information

Part Number	Description	
JENE-EG434-N4	One (1) JENEsys Edge 434 Controller	
JENE-EG-APC-3	Hardware:	68 Point, 3 Devices
	Global:	32 Point, 2 Devices
JENE-EG-APC-2	Hardware:	14 Point, 2 Devices
	Global:	14 Point, 2 Devices
JENE-EG-IO-UP25	JENEsys Edge 25 Point License Adder	

Specifications

Platform

Operating System	Helixx® Framework by Lynxspring® and Niagara® N4 (versions based on availability)
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 desc/setup values including year, month, date, hours, minutes, seconds

Communication Ports

2 Ethernet Ports	10/100 Mbps (RJ-45 Connector)
2 RS-485 Ports	RS-485 serial port with +/- screw connectors
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 & Outputs

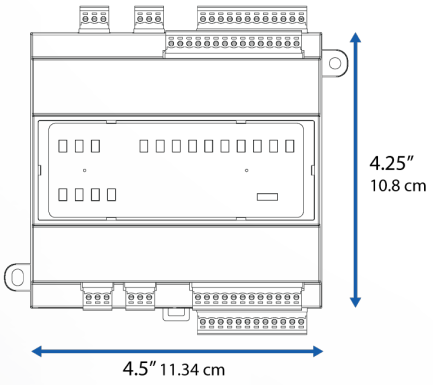
16 Universal Inputs	Type-3 10 K ohm thermistors: resistance 0-100 K ohms; 0-10 Vdc; 0-20 mA using a 499-ohm resistor; pulse input: up to 500 Hz; 12-bit A/D resolution
10 Digital Outputs	Form A contacts, 24 V at 0.5 A
8 Analog Outputs	0-10 Vdc
Connector Screw Size	3/32" slotted
Supported Wire Size	28-16 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 2.63" (6.68 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

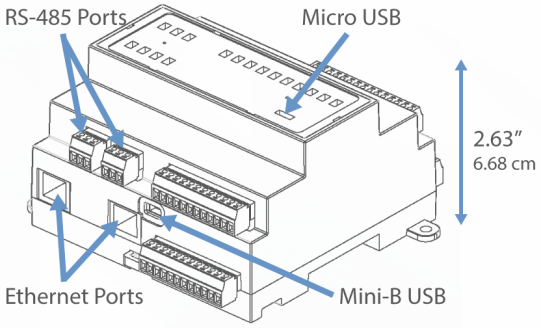
Weight

JENE-EG434-N4	0.9 lbs **Product and Packaging:** 1.6 lbs

Certifications

Compliance

Approved: UL916:2015 (5th Edition) CSA C22.2 No. 205-17 (3rd Edition)
CE Emissions: FCC 47CFR Part 15B, ICES-003, EN 5032:2015/AMD:2019 (CISPR 32), AS/NZS CISPR 32:2015, EN 61000-6-3:2007/A1:2011
Immunity: IEC 61000-6-1 and CISPR 35:2016



Device does not support Power-Over-Ethernet (POE) networks

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