JENEsys Edge 414

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 414 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 414 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 414 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 414 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 414 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-EG414-N4	One (1) JENEsys Edge 414 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		

Hardware/Software

Operating System	Helixx Framework by Lynxspring and Niagara Framework(N4)
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 to store setup values (Y:M:D:H:M:S)

Communication Ports

2 Ethernet Ports	10/100 Mbps (RJ-45 Connector) bridged for Spanning Tree Protocol
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 & 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; 12bit 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	16-28 AWG
Housing	UL94V-0

Power

Power Input	External 24 Vac/dc +10%/-10%, 50/60 Hz, Minimum 18 VA per device

Chassis

Construction	Base: Plastic, DIN rail or screw mount Cover: Plastic
Cooling	Internal air convection
Dimensions	3.46" (8.79 cm) width x 4.25" (10.8 cm) length X 2.125" (6.68 cm) depth
Mounting	Flat panel and 35 mm DIN rail mounting options standard

Environment

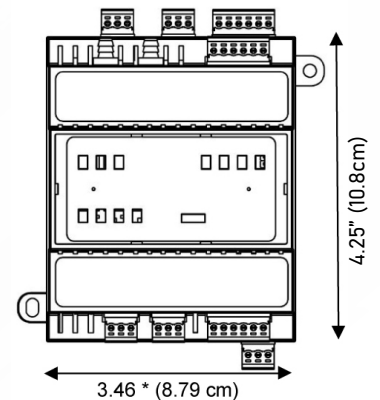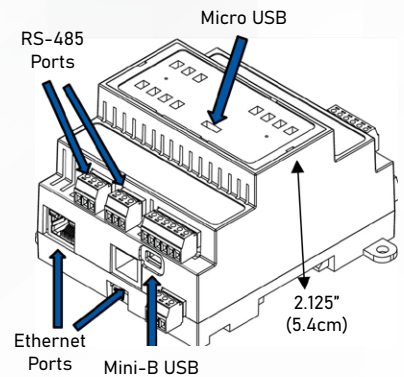|	
Operating Temperature	0 – 60 °C (32 –140 °F)
Storage Temperature	0 – 70 °C (32 –158 °F)
Relative Humidity Range	5 – 95% RH, non-condensing

Weight

JENE-EG414-414	0.6 lbs; Product and Packaging: 0.8 lbs

Certifications

Compliance

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

RS-485 Ports, Micro USB, Ethernet Ports, Mini-B USB, 2.125" (5.4cm)

4.25" (10.8cm), 3.46 * (8.79 cm)

LYNXSPRING®
www.lynxspring.com

2900 NE Independence Ave,
Lees Summit, MO 64064
877-649-5969 | sales@lynxspring.com