



powered by  
**niagara**  
framework®

Made in USA

## JENEsys Edge 514 Specifications

- ✓ Powered by Niagara 4
- ✓ Open NiCS
- ✓ Supports JAVA Web Start
- ✓ Standard Niagara 4 drivers—Niagara 4 Network (Fox), BACnet, Modbus, Web & oBIX
- ✓ 4 Digital Outputs
  - Form A contacts, 24 V at 0.5 A
- ✓ 4 Analog Outputs
  - 0-10 Vdc
- ✓ 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
- ✓ 10/100 Mbps Ethernet (2), RS-485 (2), Mini-B USB (1), Micro USB (1)
- ✓ Standard RS-485 multi-drop communication bus
- ✓ 4G eMMC flash memory
- ✓ 1GHz AM335x ARM Cortex A8 Processor
- ✓ Existing Niagara 4 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

*Buildings, Energy Management Applications, Equipment, Machine-to-Machine*

The JENEsys Edge 514 is a fully programmable Niagara controller with 14 IO built in and expandable IO available, delivering edge connectivity, control, data access and analytics for today's buildings, energy management applications, equipment and machine-to-machine applications within a secure environment.

Taking Niagara 4 to the edge with real-time control—the JENEsys Edge 514 *utilizes the same familiar ProBuilder/Workbench software, Niagara programming tools and Fox Protocol.*

## Connect & Access Data—Anytime, Anywhere

Purpose-built, Lynxspring's JENEsys Edge 514 delivers edge connectivity, control, data access and control for today's small to mid-sized facilities, plant and equipment control, machine-to-machine applications that require smart edge technology.

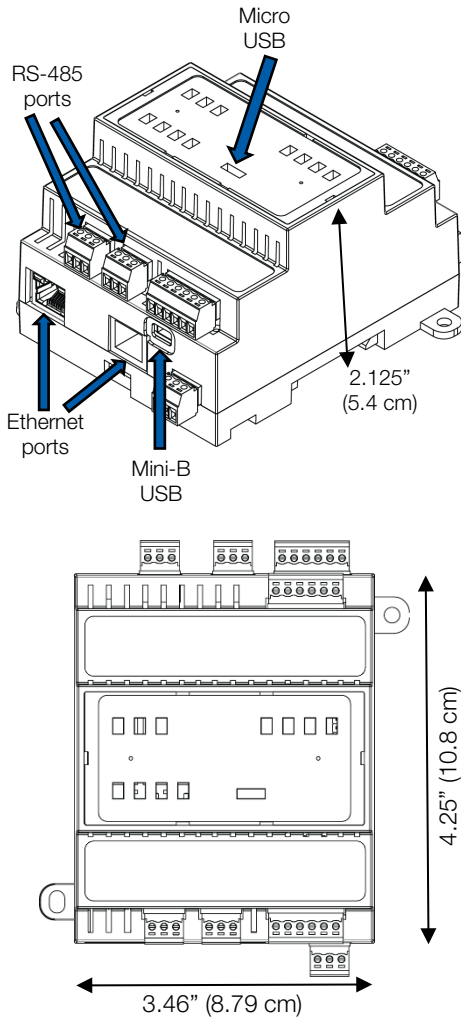
## Reduce Engineering Time & Installation Costs

The JENEsys Edge 514 combines Niagara 4 with 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.

## Features

- ✓ Fully programmable Niagara controller; Fox Protocol
- ✓ Same Programming Tools—ProBuilder/Workbench
- ✓ 14 points of IO on-board and enables an Onyx Network
- ✓ Add up to 8 additional extender modules (*at 34 points of IO each*) for a maximum of 286 points
- ✓ Fast & increased memory capacity
- ✓ Small unit footprint
- ✓ Real-time Linux OS

### Dimensions



### Specifications

#### PLATFORM

Operating System	Helix <sup>®</sup> Framework by Lynxspring <sup>®</sup> and Niagara <sup>®</sup> 4
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

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; 12 bit 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	28-16 AWG
Housing	UL94V-0

#### POWER

Power Input	External 24 Vac +0%/-10% 60Hz, dc +10%/-10%, minimum 18 VA/device
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#### 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" (5.4 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	Pending: FCC 47CFR Parts 15B and 18, EN 55022, EN 55011, ICES-003, RoHS. UL 916, CSA C22.2 No. 205-12, EN 61010-1: 2010, IEC 61010-1, 3rd edition
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#### WEIGHT

JENE-EG514	0.6 pounds	Product and Packaging	0.8 pounds
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### Ordering Information

PART NUMBER(S)	DESCRIPTION
JENE-EG514-100	Packaging will include one (1) JENEsys Edge 514 Controller (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)
JENE-EG514-300	Packaging will include one (1) JENEsys Edge 514 Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 5 DEVICES)

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