JENEsys® Edge™ 100
PRODUCT DATA SHEET

niagara

JENE-EG100 Features

- ✓ Niagara Station with 2 options:
  - ➢ a maximum of 100 points, no device limit
  - ➢ a maximum of 300 points, no device limit
- ✓ Programmable with Niagara and Fox Protocol
- ✓ Supports JAVA Web Start for access without JAVA plug-ins
- ✓ Standard drivers—Niagara Network (Fox), BACnet, Modbus, Web & oBIX
- ✓ Compatible with many additional drivers
- ✓ 800 MHz, 4 GB on-board Flash memory
- ✓ 1GHz AM335x ARM Cortex A-8 Processor
- ✓ Runs on Onyxx®—an extensible platform
- ✓ Application-specific apps can be added
- ✓ Unit footprint smaller than a JACE®
- ✓ 35 mm DIN rail or flat panel mounting

Delivering the Reliability of Niagara to the Edge

JENEsys® Edge™ products are a new generation of controllers combining the Niagara Framework® with Lynxspring's Onyxx® platform. The JENEsys Edge100 combines a controller, gateway and web server duties all into a single device—taking Niagara to the edge with real-time control.

Purpose-built, Lynxspring's JENEsys Edge 100 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.

Simple Site Application (SSA)

The premise for the JENEsys Edge 100 with a SSA license is to apply a Niagara solution on the Onyxx platform that allows for more relevance to points than to devices. For example, a small retail site may have 2-3 rooftop units with communicating thermostats, 1-3 lighting relays, a smart meter and possibly some very small IO required. The SSA allows Niagara to become an economical choice that can manage the site delivering ***maximum performance at minimum cost***.

Connectivity & Data Access—*Anytime, Anywhere*

The JENEsys Edge 100 fills a significant gap for performance and budgetary goals by providing the tools and access to data needed for managing today's small and mid-sized facilities. Furthermore, the JENEsys Edge 100 reduces engineering time and installation costs by combining Niagara with a proven edge hardware platform.

The JENEsys Edge 100 connects, integrates and correlates facility equipment, systems and IoT devices. It enables facility managers and operators to use a known UI *(ProBuilder/ Workbench)* to achieve operational efficiencies between multiple systems/devices supporting facility management functions, equipment control and business applications. Compatible with Niagara, the JENEsys Edge 100 uses Fox Protocol to facilitate communications between Niagara stations.

The JENEsys Edge 100 connects, controls and manages devices and equipment by utilizing the advanced capabilities of open source hardware together in a secured environment from device-to-cloud, device-to-device and to the edge.

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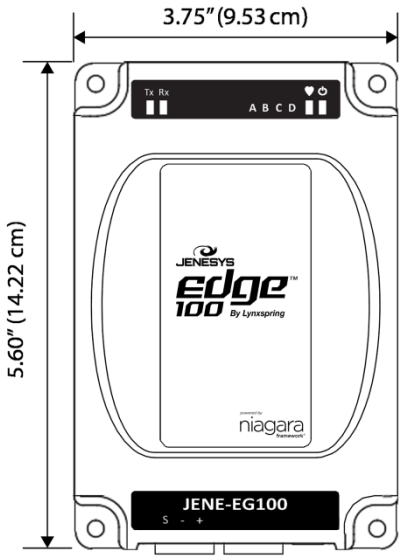
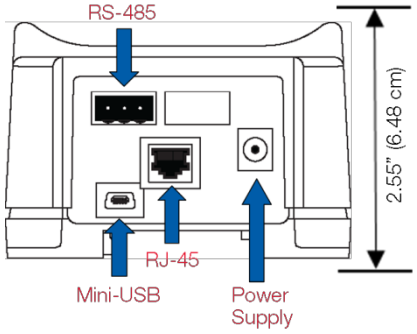
JENEsys® Edge™ 100
Product Data Sheet

Dimensions





Specifications

Platform	
Operating System	Helixx® Framework by Lynxspring® and Niagara® AX 3.8
Processor	1 GHz AM335x ARM Cortex A-8
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.
Back-up module with an embedded button cell lithium battery.	Battery provides a 5-minute fail over backup in case of power loss. This prevents loss of data in transmission or data being written to a data base during a power loss by providing a power backup and shut down.
Communication Ports	
Ethernet Port	10/100 Mbps *(RJ-45 Connector)*
RS-485 Port	Optically-isolated RS-485 serial port with 3-screw connector
Mini-B USB	USB Client Connector utilizes 5-pin Mini-B USB cable
Power	
Power Input	External 9 to 15 VDC 1A power supply
Chassis	
Construction	Base: Plastic, DIN rail or screw mount Cover: Plastic
Cooling	Internal air convection
Dimensions	3.75" (9.53 cm) width x 5.60" (14.22 cm) length X 2.55" (6.48 cm) depth
Mounting	Flat panel and 35mm DIN rail mounting options standard
Environment	
Operating Temperature Range	0 – 60 °C (32 –140 °F)
Storage Temperature Range	0 – 70 °C (32 –158 °F)
Relative Humidity Range	5 – 95% RH, non-condensing
Certifications	
Compliance	FCC Part 15 Class A, RoHS, CE, CAN IC-ES-3(A)/NMB-3(A) *Lithium Battery:* UL 1642; FAA AC 120-76C; UN38.3; UL 2054; UL 60950-1; and IEEE 1725.
Weight	
Edge 100 with Cables	2 pounds
Product and Packaging	3 pounds

Ordering Information

Part Number(s)	Description
JENE-EG100-100U	Packaging will include one (1) JENEsys Edge 100 Controller (License with 100 point Limit, Unlimited Devices), one (1) 9 to 15 VDC 1A external power supply, and one (1) 7 ft. Ethernet cable.
JENE-EG100-300U	Packaging will include one (1) JENEsys Edge 100 Controller (License with 300 point Limit, Unlimited Devices), one (1) 9 to 15 VDC 1A external power supply, and one (1) 7 ft. Ethernet cable.

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