JENESYS edge® 634 BY LYNXSPRING

# DATA SHEET


MADE IN THE USA

## KEY FEATURES

niagara4

- Open NiCS
- Secure Linux OS
- 32 GB eMMC NAND Flash Storage
- 2 GB DDR4 RAM Memory
- 1.7 GHz i.MX 93 Dual ARM Cortex A55 cores
- Standard Niagara 4 Drivers: Niagara 4 Network, Fox S, BACnet, Modbus, Web & oBIX
- Existing Niagara 4 stations can be added
- Ideal for equipment control/monitoring applications and Network Area Management (NAM)
- AI-Ready* with Ethos-U65 Neural Processing Unit
- Edge to Enterprise—E2E-Ready*

## OPTIONS AVAILABLE

| | |
|---|---|
| **JENE-EG634-100** | LICENSE MAX OF 100 POINTS, 5 DEVICES |
| **JENE-EG634-250** | LICENSE MAX OF 250 POINTS, 5 DEVICES |
| **JENE-EG634-300** | LICENSE MAX OF 300 POINTS, 6 DEVICES |
| **JENE-EG634-500** | LICENSE MAX OF 500 POINTS, 10 DEVICES |
| **JENE-EG634-1250** | LICENSE MAX OF 1,250 POINTS, 25 DEVICES |
| **JENE-EG634-5000** | LICENSE MAX OF 5000 POINTS, 100 DEVICES |

## JENESYS EDGE® 634

The **JENEsys Edge® 634** is a fully programmable Niagara controller with 34 onboard I/O and options for expansion. Its enhanced processing power and memory capacity set it apart enabling seamless management of complex applications and high volume integrations.

Engineered for today's built-environment, this controller is both E2E-ready and AI-ready for future applications. It delivers control across a wide range of use cases, including building automation, equipment control, plant operations, IoT applications, and facility management.

## REDUCE ENGINEERING TIME & INSTALL COSTS

The JENEsys Edge 634 combines a secure Linux OS, and embedded Niagara 4 enabling facility managers, system integrators, and contractors to achieve operational efficiencies between systems, equipment and applications.

It demonstrates higher capacity than other Edge controllers including shorter start up times as well as increased memory and processing speeds.

## *AI-READY FOR SMARTER APPLICATIONS

With the LSM2, our latest generation of JENEsys Edge controllers, the JENEsys Edge 634 is AI-ready for future applications. Optimized with an integrated NPU that enables fast, efficient, and local execution of AI tasks by offloading ML inference from the main CPU, making it smarter and more responsive.

## *EDGE-TO-ENTERPRISE/E2E-READY

E2E is a centralized OT data management/IDL platform making building/facility data easily accessible, actionable, and manageable. It leverages data tagging, modeling, templating, and visualization and solves the challenge of normalizing data with time, metadata and serialization stamps. It supports seamless Cloud integration providing compatibility across your entire enterprise.

**All JENEsys Edge® & JENEsys® PC-9000 controllers now include E2E Connector license feature.**

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LYNXSPRING®
www.lynxspring.com




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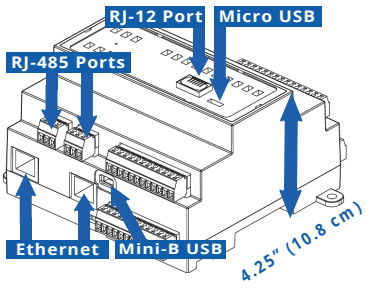
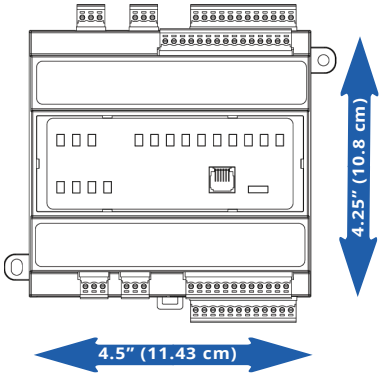
## DIMENSIONS




**Device Does Not Support (POE) Power-Over-Ethernet Networks.**

JENEsys Edge products are available to any certified Niagara integrator or contractor.

**Made in the USA**

# SPECIFICATIONS

| PLATFORM | |
|---|---|
| Operating System | Helixx® Framework by Lynxspring® driven by Linux OS and Niagara Framework® N4 (versions based on availability) |
| Processing | 1.7 GHz i.MX Dual ARM Cortex A55 cores |
| Memory | 2GB LP DDR4 2.133 GHz |
| Storage | 32 GB 8-bit Embedded MMC on-board Flash |
| Real-Time Clock (RTC) | Store description/setup values (year, month, date, hours, minutes, and seconds). |

| COMMUNICATION PORTS | |
|---|---|
| (2) Ethernet Ports | 10/100/1000 Mbps: (2) RJ-45 Connectors |
| (2) RS-485 Ports | Serial port with +/- screw connectors |
| Mini-B USB | USB Client Connector utilizes Mini-B USB cable |
| Onyxx Wall Module | (1) RJ-12 Connector |
| Micro USB | Serial shell access |
| Onyxx® Network | 2-wire (LxH LxL SHLD) high-speed differential serial signal |

| INPUTS AND OUTPUTS | |
|---|---|
| 16 Universal Inputs | Type-3 10K ohm thermistors: resistance 0-100K 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 4 A |
| 8 Analog Outputs | 0-10 Vdc or 4-20 mA |
| Connector Screw Size | 3/32" slotted |
| Supported Wire Size | 28-16 AWG |
| Housing | UL94V-0 |

| POWER | |
|---|---|
| Power Input | External 24 Vac/dc +/- 10%, 50/60 Hz, minimum 18 VA/device. Half-wave rectified. |

| 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 | -40 – 85 °C (-40 –185 °F) |
| Storage Temperature | -40 – 100 °C (-40 –212 °F) |
| Relative Humidity Range | 5 – 95% RH, non-condensing |

| WEIGHT | |
|---|---|
| JENE-EG634-N4 | 0.9 lbs Product and Packaging: 1.6 lbs |

**CERTIFICATIONS**

NRTL LISTED MET c US

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



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