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.

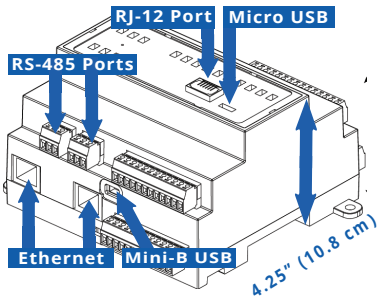
2900 NE Independence Ave.
Lee's Summit, MO 64064
sales@lynxspring.com
1 (877) 649-5969

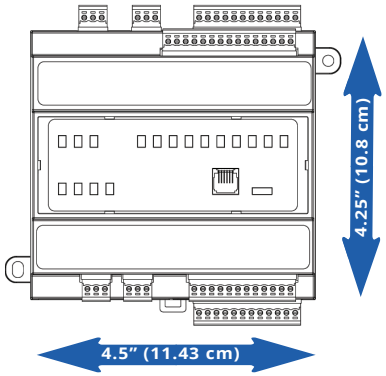
LYNXSPRING®
www.lynxspring.com

© 2025 Lynxspring, Inc.
All Rights Reserved
Rev. 11/7/25
DS-JENE-EG-634-N4-V-1.1

JENESYS edge® 634 BY LYNXSPRING

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

The information and/or specifications published here are current as of the date of publication of this document. Lynxspring, Inc. reserves the right to change or modify specifications without prior notice. The latest product specifications can be found by contacting our corporate headquarters in Lee's Summit, Missouri. Products or features contained herein are covered by one or more United States or foreign patents. Other brand and product names are trademarks or registered trademarks of their respective holders. This document may be copied by parties who are authorized to distribute Lynxspring products in connection with distribution of those products, subject to the contracts that authorize such distribution. It may not otherwise, in whole or in part, be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form without prior written consent from Lynxspring, Inc. Complete Confidentiality, Trademark, Copyright and Patent notifications can be found at: **https://www.lynxspring.com/legal/**

Lynxspring®, JENEsys®, JENEsys® Edge, Onyxx® and Helixx® are registered trademarks of Lynxspring, Inc.
Niagara Framework® is a registered trademark of Tridium, Inc.

2900 NE Independence Ave.
Lee's Summit, MO 64064
sales@lynxspring.com
1 (877) 649-5969

© 2025 Lynxspring, Inc.
All Rights Reserved
Rev. 11/7/25
DS-JENE-EG-634-N4-V-1.1