JENEsys Edge® 534 with Monnit®

Made in USA

PRODUCT DATA SHEET

900 MHz Operating Frequency

Deliver the Reliability of Niagara 4 to the Edge

JENEsys Edge® products are a new gener ation of IoT controllers combining the Niagara Framework® with Lynxspring's Onyxx® platform. A first-of-its-kind, the JENEsys Edge 534 with Monnit 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 534 with Monnit *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 534 with Monnit 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.

Reduce Engineering Time & Installation Costs

The JENEsys Edge 534 with Monnit 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 *(ProBuilder/Workbench)* to achieve operational efficiencies between multiple systems and/or devices, facility management functions, equipment control and business applications. The bottom line is that the JENEsys Edge 534 with Monnit licensing is *well-suited to take Niagara 4 into smaller or mid-sized and price-sensitive applications*.

Features

- ✓ JENEsys = fully programmable Niagara 4 controller
  - ➢ Fox Protocol
  - ➢ Same Programming Tools—ProBuilder/Workbench
- ✓ 34 points of IO on-board, enables an Onyxx Network, and connects to up to 100 Monnit ALTA wireless sensors
- ✓ Add to a JENE-EG534-WL-M, up to 8 Onyxx XM 34IO extender modules *(at 34 points of IO each)* for a maximum of 306 points
- ✓ Fast & increased memory capacity
- ✓ Small unit footprint *(4.5" x 4.25" x 2.25")*
- ✓ Real-time Linux OS

Monnit Sensor Information

For more information on the Monnit ALTA sensors, please refer to the additional documentation on our website.

JENEsys Edge 534 with Monnit Specifications

- ✓ Powered by Niagara 4
- ✓ 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 (1), Mini-B USB (1), Micro USB (1)
- ✓ Standard RS-485 multi-drop communication bus
- ✓ Onboard Monnit gateway for connection to up to 100 Monnit ALTA wireless sensors
- ✓ 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
- ✓ Leverages global capacity licenses
- ✓ 35 mm DIN rail or flat panel mounting

NOTE: This Monnit radio is ONLY certified for use in the Americas.

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JENE-EG534-WL-M-DS-V1.3

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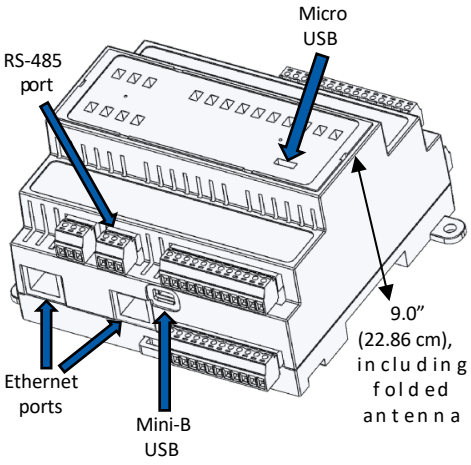
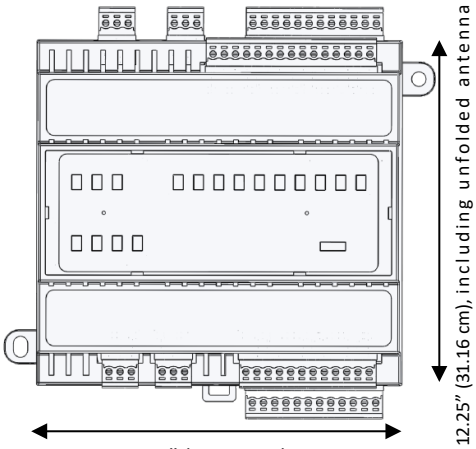
Dimensions





Specifications

PLATFORM	
Operating System	Niagara 4.9.1/4.7.110/4.6.96
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 *(RJ-45 Connector)*
RS-485 Port	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
Antenna	Reverse-polarity SMA antenna connector
INPUTS AND OUTPUTS	
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; 12-bit A/D resolution
10 Digital Outputs	Form A contacts, 24 V at 0.5 A
8 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/dc +10%/-10%, 50/60 Hz, minimum 18 VA/device
CHASSIS	
Construction	Base: Plastic, DIN rail or screw mount Cover: Plastic
Cooling	Internal air convection
Dimensions	4.5" (11.43 cm) width x 12.25" (31.16 cm) length, including unfolded antenna x 9.0" (22.86 cm) depth, including folded antenna
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	Approved: FCC 47 CFR Parts 15C and 18, EN 55022, EN 55011, ICES-003, RoHS, UL 916, CSA C22.2 No. 205-17, EN 61010-1: 2010, IEC 61010-1, 3rd edition; Monnit radio FCC ID: ZTL-G2SC1
WEIGHT	
JENE-EG534-WL-M	0.9 pounds Product and Packaging 1.6 pounds

Ordering Information

PART NUMBER(S)	DESCRIPTION
JENE-EG534-WL-M-100	**Packaging will include one (1) JENEsys Edge 534 with Monnit Controller ALTA 900 MHz (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)**
JENE-EG534-WL-M-250	**Packaging will include one (1) JENEsys Edge 534 with Monnit Controller ALTA 900 MHz (LICENSE WITH MAXIMUM OF 250 POINTS, 5 DEVICES)**
JENE-EG534-WL-M-300	**Packaging will include one (1) JENEsys Edge 534 with Monnit Controller ALTA 900 MHz (LICENSE WITH MAXIMUM OF 300 POINTS, 6 DEVICES)**
JENE-EG534-WL-M-1250	**Packaging will include o ne (1) JENEsys Edge 534with Monnit Controller**

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