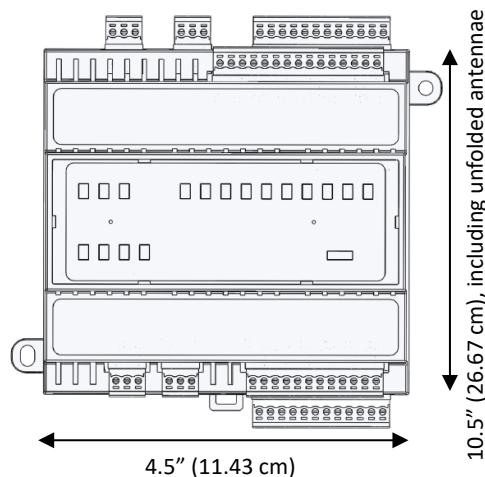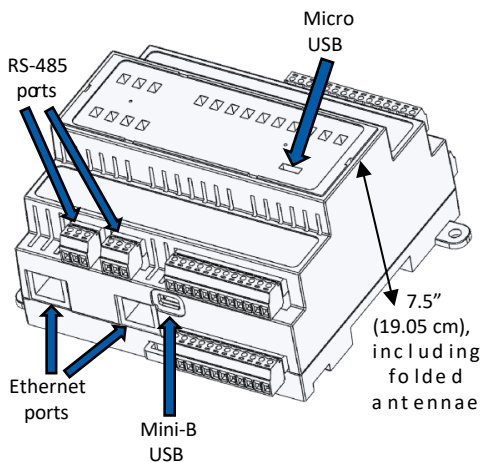## JENEsys Edge 534 – 4G LTE Attributes & Benefits

- ✓ Built with fully programmable and licensed Niagara 4 software – Full Stack
- ✓ Supports Niagara releases 4.9.1/4.7.110/4.6.96
- ✓ Same Niagara programming tools, Workbench and Fox Protocol (no new training or certification required)
- ✓ Standard Niagara 4 drivers – Niagara 4 network (Fox), BACnet, Modbus, Web & oBIX
- ✓ Using the Fox protocol, easily connects to a Niagara Supervisor, Enterprise and Cloud
- ✓ Open NiCS
- ✓ Linux OS
- ✓ 34-IO (Inputs and Outputs) on-board and expandable IO through the accompanying XM extension modules
- ✓ Aligned with leading, cellular modem manufacturer and cellular service provider
- ✓ On-board NimbeLink's Skywire® LTE CAT 1 embedded cellular modem
- ✓ Simplified configuration and deployment – includes user interface
- ✓ High-speed 4G LTE connection; fast data exchange speeds
- ✓ Widespread service coverage
- ✓ Secured cellular connection via VPN
- ✓ Cost effective data service plan
- ✓ Easy to configure and deploy

Deliver the Reliability of Niagara 4 and 4G LTE to the Edge

Lynxspring's Edge Enabled™ JENEsys Edge 534 – 4G LTE brings together the JENEsys Edge 534, Niagara IP programmable controller and the addition of built-in 4G LTE cellular connectivity and capabilities. This multi-purpose controller combines the full features and functionality of Niagara 4 utilizing Niagara ProBuilder/Niagara Workbench software, Niagara 4 programming tools and Fox Protocol with the capability and advantages of 4G LTE cellular. The JENEsys Edge 534 – 4G LTE provides an efficient and easy way to implement on-demand, reliable cellular connectivity to enable remote access, control and management on an embedded, programmable controller.

The unit supports secure, bi-directional communication, remote access and the exchange of data among today's intelligent buildings, equipment, edge devices and Cloud services. It enables users to remotely access, monitor and control systems and equipment through Niagara 4 and have access to building and equipment data through a dedicated secure VPN service from Verizon, or a participating Verizon service of your choice.

E2E Private Wireless Network and the E2E Easy Data Service Plan

The JENEsys Edge 534 – 4G LTE is packaged with an available, purpose-built Verizon for data traffic only, Private Wireless Network and Lynxspring's E2E Easy Data Service Plan. With the reliability, coverage, security and simplicity of this cellular data plan, the JENEsys Edge 534 – 4G LTE has been designed for easy set-up, installation, commissioning and includes a cellular modem interface allowing instant communication upon startup.

Refer to the E2E Easy Data Service Plan document and Agreement for additional information.

Dimensions

Micro USB

RS-485 ports

Ethernet ports

Mini-B USB

7.5" (19.05 cm), including folded antennae

10.5" (26.67 cm), including unfolded antennae

4.5" (11.43 cm)

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)*
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
Onyxx Network	3-wire (LxH LxL SHLD) high-speed differential serial signal
Antennas	2 SMA antenna connectors (primary and diversity), active antenna support

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 10.5" (26.67 cm) length, including unfolded antennae x 7.5" (19.05 cm) depth, including folded antennae
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
RF Exposure/Specific Absorption Rate (SAR)	This product has been evaluated for SAR and meets the FCC guidelines fo exposure to radio waves. FCC Equipment Authorization ID: QIPELS31-V

WEIGHT	
JENE-EG534-4G	0.9 pounds Product and Packaging 1.6 pounds

Ordering Information

PART NUMBER(S)	DESCRIPTION
JENE-EG534-4G-100	Packaging will include one (1) JENEsys Edge 534 – 4G LTE Controller (LICENSE WITH MAXIMUM OF 100 POINTS, 5 DEVICES)
JENE-EG534-4G-250	Packaging will include one (1) JENEsys Edge 534 – 4G LTE Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 5 DEVICES)
JENE-EG534-4G-300	Packaging will include one (1) JENEsys Edge 534 – 4G LTE Controller (LICENSE WITH MAXIMUM OF 300 POINTS, 6 DEVICES)
JENE-EG534-4G-1250	Packaging will include one (1) JENEsys Edge 534 – 4G LTE Controller (LICENSE WITH MAXIMUM OF 1,250 POINTS, 25 DEVICES)
HDR-30-24	Power Supply for one 534 and one XM
HDR-60-24	Power Supply for one 534 and three XMs
HDR-100-24	Power Supply for one 534 and eight XMs

Connect & Access Data – Anytime, Anywhere

The JENEsys Edge 534 – 4G LTE 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 – 4G LTE 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 (Niagara 4 ProBuilder/Workbench) to achieve operational efficiencies between multiple systems and/or devices, facility management functions, equipment control and business applications.

Cellular Modem

The JENEsys Edge 534 – 4G LTE features NimbeLink's Skywire® LTE CAT 1 embedded cellular modem. This modem is specifically designed to meet the challenge of connecting devices to cellular networks. It is designed for deployment on the Verizon LTE network and is certified, enabling easy integration with no further carrier testing requirements.

Cellular Modem Features

✓ Low power requirements

✓ No additional carrier certification required

✓ FCC, Verizon ODI approved and certified

✓ RoHS compliant

✓ End-device certified, which enables easy integration with no further carrier testing requirements

✓ Network Stack support – integrated TCP/IP, UDP/IP, HTTP/HTTPS, FTP, SMTP, IPv4/IPv6, NITZ, PING, PPP Stacks, SMS over IMS

✓ Power supply voltage 3 V – 5.5 V (3.8 V nominal); I/O voltage 1.65 V – 5.5 V; current consumption average 135 mA, peak 700 mA, idle 48 mA, sleep 8.6 mA

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