

JENEsys® Edge 100 INSTALLATION GUIDE

JENE-EG100

Estimated installation time: 5-10 minutes

Package Contents:

- ✓ One JENEsys®-Edge 100 (*JENE-EG100*)
- ✓ One 7ft Ethernet Cable
- ✓ One AC Power Adaptor
- ✓ One JENEsys-Edge 100 Installation Guide (*this document*)
- ✓ One 3-Position Terminal Connector
- ✓ One 3-Position Blank Terminal Connector



Ethernet Cable

Power Adaptor



JENEsys Edge 100

Preparing to Install the JENEsys-Edge 100

Decide where you want to place the JENEsys-Edge100. You can use wall mounting screws (*not provided*) to mount the JENEsys-Edge 100 in an open space or mount on a 35mm wide DIN rail utilizing the molded DIN rail slot located on the base of the device.

Make sure the selected location is:

- ✓ Not in direct sunlight or near a heater or heating vent.
- ✓ Not cluttered or crowded. There should be at least 4 to 6 inches (*10-15 cm*) of clear space on the side where all of the network and power connections are made.
- ✓ Well ventilated (*especially if enclosed in a cabinet*).

Connecting to the JENEsys-Edge 100

A 10/100-Mbit Ethernet connection is provided on the JENEsys-Edge 100. This is an RJ-45 port. Use a standard Ethernet patch cable for connecting to an Ethernet Hub or Switch or for connecting directly to your computer. The RJ-45 port has two LEDs. When the device is connected to a network, the amber **LINK** LED is lit and the green **ACTIVITY** LED flashes when activity occurs.

Step 1: Connect one end of the Ethernet cable to your JENEsys-Edge 100's RJ-45 port and the other end to the internet port on your computer.

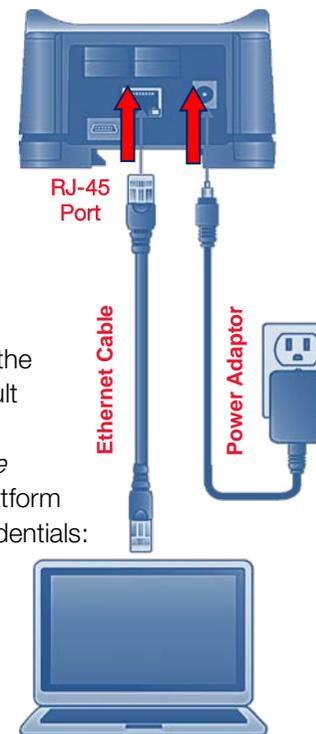
Step 2: Connect the power adaptor to the JENEsys-Edge 100 and then plug it into an outlet. Wait for the power LED and heartbeat LED to turn on. If none of the LEDs turn on, make sure the barrel connector on the end of the power adaptor is pressed firmly into the JENEsys-Edge 100.

Step 3: Temporarily change your computer's network settings so your IP address is in the range: **192.168.1.1 to 192.168.1.254** (*without using the JENEsys-Edge 100's default address as described in Step 4*). Make note of your computer's current network settings.

Step 4: With ProBuilder 3.8.111 installed on your computer, make a platform connection to the JENEsys-Edge 100 using the factory default IP address (*192.168.1.12n*, where the last numeral (*n*) matches the last numeral in the *JENEsys-Edge 100's* Host ID number), platform daemon port (3011), and the following credentials:

Username: tridium
Password: niagara

Step 5: Refer to the JENEsys-Edge 100's **USER GUIDE ADDENDUM** and your local copy of the **NIAGARAAX USER GUIDE** for detailed instructions on how to configure the device using Niagara.



Connecting RS-485 Network to JENEsys-Edge 100

The RS-485 port uses a 3-position, screw terminal connector. The screw terminals (*from left-to-right*) are shield, minus (-), and positive (+). The transmit (Tx) and receive (Rx) LEDs located on the JENEsys-Edge 100 cover will flash when there is network activity detected.

Step 1: Unplug the left, 3-position screw terminal connector from the JENEsys-Edge 100.

Step 2: Insert the positive wire from your RS-485 network to the positive terminal (*far right terminal*) on the 3-position, screw terminal connector and tighten down the screw.

Step 3: Insert the negative wire from your RS-485 network to the negative terminal (*center terminal*) on the 3-position, screw terminal connector and tighten down the screw.

Step 4: Insert the shield wire to the shield terminal (*far left terminal*) on the 3-position, screw terminal connector and tighten down the screw.

Step 5: If located at the end of the network, Lynxpring recommends installation of a 120 ohm end-of-line resistor on the + & - terminals.



Step 6: Plug the 3-position, screw terminal connector back into the RS-485 port on the JENEsys-Edge 100.



Specifications

PLATFORM	
Operating System	Helixx™ Framework by Lynxspring® 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
RTC	Real-Time Clock: Battery-powered clock included to store description or setup values including: current time (<i>year, month, date, hours, minutes and seconds</i>).
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 ICES-3(A)/NMB-3(A) <i>Lithium Battery</i> UL 1642; FAA AC 120-76C; UN38.3; UL 2054; UL 60950-1; and IEEE 1725.

Troubleshooting

If you are unable to make a platform connection to the JENEsys-Edge 100:

- ✓ Make sure the JENEsys-Edge 100 is fully up and running. Its power LED should turn on and its heartbeat LED should be flashing.
- ✓ Make sure the Ethernet cable is connected firmly to the Ethernet port on the JENEsys-Edge 100. The LEDs on the Ethernet port will indicate if the JENEsys-Edge 100 is connected to the network. The amber **LINK** LED will indicate the JENEsys Edge 100 is connected to a network and the green **ACTIVITY** LED will indicate the JENEsys-Edge 100 is transmitting and receiving on the network.
- ✓ If you are connecting directly from your computer to the JENEsys-Edge 100, ensure your computer's network settings are set so that your computer's IP address is anything other than the device.
- ✓ If you are connecting the JENEsys-Edge 100 through a network make sure your computer's network setting is set to **DHCP**.
- ✓ Close and re-open the browser to make sure that the browser does not cache the previous page.

Statement of Conditions

In the interest of improving internal design, operational function, and/or operability, Lynxspring reserves the right to make changes to the product described in this document without notice. Lynxspring does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

Technical Support

Thank you for selecting Lynxspring products. Please contact our Support Team if you have any questions about installing or setting-up your new JENEsys-Edge 100 (*JENE-EG100*).

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Proper Disposal

This product contains a lithium battery.

The U.S. Environmental Protection Agency (EPA) does not regulate the disposal of batteries in small quantities; large quantities are regulated under the Universal rules of Hazardous Waste regulations (*40 CFR PART 273*). Lithium batteries are not currently being collected by manufacturers for recycling. While there are no federal regulations for disposal of lithium batteries, individual states can establish their own guidelines for battery disposal, and should be contacted for any local disposal guidelines.

The shipment of live or discharged lithium batteries is governed by the Department of Transportation (DOT) in their Code of Federal Regulations (49 CFR), paragraph 173.185(j). *Remember that before any type of disposal the batteries should be discharged completely. Tape the contacts with electrical tape and package so as to prevent contacts accidentally coming together at any time.*



■ This symbol was placed in accordance with the European Union Directive 2002/96 on the Waste Electric and Electronic Equipment (*the WEEE Directive*). If disposed of within the European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive.

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