What's In The Box?

- An xIn 4, xIO 4x4, or xOut 4 hardware unit.
- A North American (NEMA) or Euro IEC power cable. You may need to substitute a cable appropriate for your locale.
- 15 Watt, 100-250 VAC input, 48 VDC output, PoE injector.
- 4 or 8 detachable 3.5 mm Phoenix® connectors.
- A 3' CAT6 RJ45 cable.
- A Printed Quick Start Guide.

What You Need to Provide

A Windows PC with 1 GHz or higher processor and:

- Windows XP or higher.
- 250 MB free storage space.
- 1024x768 graphics capability.
- 16-bit or higher colors.
- CD-ROM drive or Internet connection.
- 512 MB or more of RAM as required by your operating system.
- A SymNet Edge or Radius hardware device.
- CAT5/6 cable or an existing Dante network.

Getting Help

SymNet Composer, the Windows software that configures SymNet xIn 4, xOut 4 and xIO 4x4 hardware, includes a help module which acts as a complete User's Guide for both hardware and software. If you have questions beyond the scope of this Quick Start Guide, contact our Customer Support Group in the following ways:

Tel: **+1.425.778.7728**
7:00 am to 5:00 pm
Monday through Friday,
Pacific Time
Web: **http://www.symetrix.co**
Email: **support@symetrix.co**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

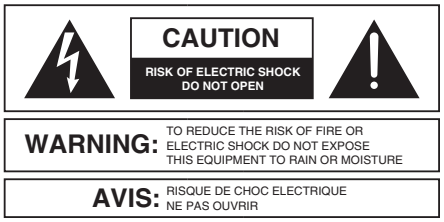
Cet appariel numerique de la classe B respecte toutes les Exigences du Reglement sur le materiel brouilleur du Canada.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install only in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. This apparatus shall be connected to a mains socket outlet with a protective earthing connection. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug cord is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- **The lightning flash** with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product (i.e. this Quick Start Guide).
- **CAUTION:** To prevent electric shock, do not use the polarized plug supplied with the device with any extension cord, receptacle, or other outlet unless the prongs can be fully inserted.
- **Power Source:** This Symetrix hardware uses a universal input supply that automatically adjusts to the applied voltage. Ensure that your AC mains voltage is somewhere between 100-240 VAC, 50-60 Hz. Use only the power cord and connector specified for the product and your operating locale. A protective ground connection, by way of the grounding conductor in the power cord, is essential for safe operation. The appliance inlet and coupler shall remain readily operable once the apparatus has been installed.
- **User Serviceable Parts:** There are no user serviceable parts inside this Symetrix product. In case of failure, customers inside the U.S. should refer all servicing to the Symetrix factory. Customers outside the U.S. should refer all servicing to an authorized Symetrix distributor. Distributor contact information is available online at: http://www.symetrix.co.

Software Installation

SymNet Composer is the software that provides real-time set-up and control of SymNet xIn 4, xOut 4 and xIO 4x4 from a Windows PC environment.

Use one of the following procedures to install SymNet Composer on your computer.

From the CD-ROM:

1. Insert the CD into your computer's CD-ROM drive.
2. Open "My Computer". The "My Computer" icon is typically on your desktop or in the "Start" menu.
3. Double click on your CD-ROM drive. This is typically drive "D:\". If your CD-ROM drive isn't "D:\", then substitute its drive letter.
4. Double-click "Setup.exe".

From the Symetrix web site (http://www.symetrix.co):

1. Download the SymNet Composer software installer from the Symetrix web site.
2. Double-click on the file you just downloaded and follow the on screen directions to install.

After installing the software, refer to the Help File for full connection and configuration information.

System Setup

Neither the SymNet xIn 4, xOut 4 nor the xIO 4x4 functions stand-alone, as SymNet Composer software cannot communicate with them directly. Therefore, xIn 4, xOut 4 and xIO 4x4 require a SymNet Edge or Radius unit to be present in the system to act as the communications bridge. A successful system setup requires that you first establish communications with an Edge or Radius unit.

Basic Connections

1. Connect your PC to an Ethernet port on the Edge or Radius unit.
2. To power the xIn 4, xOut 4 or xIO 4x4, connect the Dante port to a PoE injector or PoE enabled switch port.
3. Daisy chain a CAT5/6 cable from either the LAN port on the PoE injector or from the PoE switch.

Network Setup

About DHCP

SymNet Edge and Radius boot with DHCP enabled by default. This means that as soon as you connect it to a network, it will look for a DHCP server in order to obtain an IP address. If a DHCP server is present, Edge and Radius will obtain an IP address from it. This process may take several minutes. With your PC attached to the same network, and thus getting its IP address from the same DHCP server, all will be ready to go.

If your network does not have a DHCP server, Edge and Radius will not be able to obtain an IP address. While waiting, Edge and Radius will default to a private IP address in the range of 169.254.x.x where x.x is the last four alphanumeric characters of Edge and Radius's MAC address (MAC address hex value is converted to decimal for IP address). Edge and Radius's MAC address can be found on a sticker on the bottom of hardware.

When there is no DHCP server present to assign IP addresses to either Edge and Radius or your PC, you may need to configure your PC with a static IP in the range of 169.254.x.x with a Subnet Mask of 255.255.0.0 in order to communicate with Edge and Radius in a direct connect mode. However, if your PC is using the default network settings, it should also have automatically self-assigned a similar private IP address in the range of 169.254.x.x, and if this is the case, you should be able to connect to Edge and Radius directly.

Even if the PC's default settings have been changed, Edge and Radius will try to establish communications by setting up appropriate routing table entries to reach devices with 169.254.x.x addresses.

Connecting to Edge and Radius from a host computer on the same LAN

Both Edge and Radius and the host computer require the following 3 items:

1. IP Address - The unique address of a node on a network.
2. Subnet Mask - Configuration that defines which IP Addresses are included in a particular subnet.
3. Default Gateway (optional) - The IP address of a device that routes traffic from one subnet to another. (This is only needed when the PC and Edge and Radius are on different subnets).

If you are putting Edge and Radius on an existing network, a network administrator will be able to provide the above information or it may have been provided automatically by a DHCP server. For security reasons, it is not recommended to put Edge and Radius directly on the Internet. If you do, a network administrator or your Internet Service Provider can provide the above information.

If you are on your own private network, directly or indirectly connected to Edge and Radius, you may allow Edge and Radius to choose an automatic IP address or you may choose to assign it a static IP address. If you are building your own separate network with static assigned addresses, you may consider using an IP Address from one of the "Private-Use" networks noted in RFC-1918:

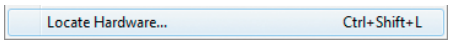
1. 172.16.0.0/12 = IP Addresses 172.16.0.1 through 172.31.254.254 and a Subnet Mask of 255.240.0.0
2. 192.168.0.0/16 = IP Addresses 192.168.0.1 through 192.168.254.254 and a Subnet Mask of 255.255.0.0
3. 10.0.0.0/8 = IP Addresses 10.0.0.1 through 10.254.254.254 and a Subnet Mask of 255.255.0.0

Connecting to xIn 4, xOut 4 and xIO 4x4 through a Firewall/VPN

We have successfully tested control of SymNet xIn 4, xOut 4 and xIO 4x4's through a firewall and VPN, but are unable to guarantee performance of these types of connections at this time. Configuration instructions are specific to each firewall and VPN, so specifics are not available. Additionally, wireless communications are also not guaranteed, though have also been successfully tested.

Configuring IP Parameters

Locating Edge and Radius



- or -



- or -



Discovery of, and connection to, Edge and Radius hardware is done with the Locate Hardware dialog found under the Hardware menu or by clicking the Locate Hardware icon in the tool bar or on a particular Edge and Radius unit itself.

IP Configuration with Composer

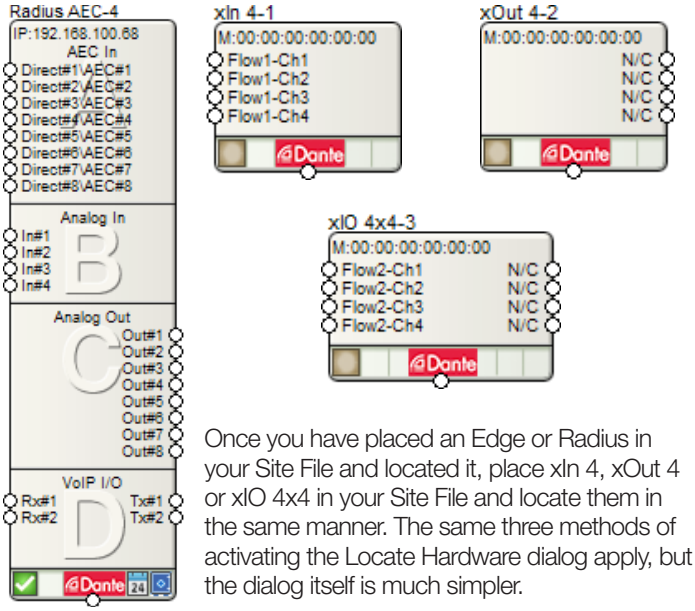
The Locate Hardware dialog will scan the network and list available units. Select the Edge and Radius unit you wish to assign an IP address to and click the Properties button. If you wish to assign Edge and Radius a static IP address, select “Use the following IP address” and enter the appropriate IP Address, Subnet mask and Gateway. Click OK when finished. Now, back in the locate hardware dialog, ensure the Edge and Radius device is selected and click “Select Hardware Unit” to use this Edge and Radius hardware in your Site File. Close the Locate Hardware dialog.

IP Configuration with the Front Panel

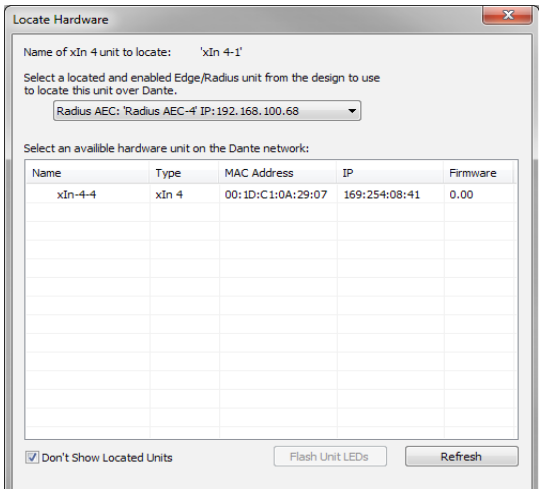
Edge and Radius IP information can also be edited from the front panel. Edge and Radius’s front panel interface starts up in System Mode out of the box. Press LEFT or RIGHT until you get to the DHCP menu. If DHCP is enabled, press ENTER and then UP or DOWN until it reads DISABLED, then press ENTER to confirm. Now press RIGHT until you get to the IP Address menu. Press ENTER to edit using the UP, DOWN, LEFT and RIGHT buttons to change digits and navigate between digits. Press ENTER again when finished editing. Repeat as necessary for Subnet Mask and Gateway Address.

Note: *If the IP Address is changed from the front panel, Composer Design unit(s) must be updated to match by right clicking on the units and choosing Unit Properties or by Locating Hardware as detailed previously.*

Locating xIn 4, xOut 4 and xIO 4x4



Once you have placed an Edge or Radius in your Site File and located it, place xIn 4, xOut 4 or xIO 4x4 in your Site File and locate them in the same manner. The same three methods of activating the Locate Hardware dialog apply, but the dialog itself is much simpler.



The Locate Hardware dialog will scan the the selected Edge or Radius unit and list xIn 4, xOut 4 and xIO 4x4 units. Select the physical xIn 4, xOut 4 or xIO 4x4 unit you wish to use and click the Select Hardware Unit button.

Declaration of Conformity

We, **Symetrix Incorporated**, 6408 216th St. SW, Mountlake Terrace, Washington, USA, declare under our sole responsibility that the product:

SymNet xIn 4, xOut 4 and xIO 4x4

to which this declaration relates, is in conformity with the following standards:

IEC 60065, EN 55103-1, EN 55103-2, FCC Part 15, RoHS

The technical construction file is maintained at:

Symetrix, Inc.

6408 216th St. SW

Mountlake Terrace, WA, 98043 USA

The authorized representative located within the European Community is:

World Marketing Associates

P.O. Box 100

St. Austell, Cornwall, PL26 6YU, U.K.

Date of issue: 07/29/2015

Place of issue: Mountlake Terrace, Washington, USA

Authorized signature:



Dane Butcher, President, Symetrix Incorporated.

The Symetrix Limited Warranty

Symetrix, Inc. expressly warrants that the product will be free from defects in material and workmanship for three (3) years from the date the product is shipped from the factory. Symetrix's obligations under this warranty will be limited to repairing or replacing, at Symetrix's option, the part or parts of the product which prove defective in material or workmanship within three (3) years from the date the product is shipped from the factory, provided that the Buyer gives Symetrix prompt notice of any defect or failure and satisfactory proof thereof. Products may be returned by Buyer only after a Return Authorization number (RA) has been obtained from Symetrix. Buyer will prepay all freight charges to return the product to the Symetrix factory. Symetrix reserves the right to inspect any products which may be the subject of any warranty claim before repair or replacement is carried out. Symetrix may, at its option, require proof of the original date of purchase (dated copy of original retail dealer's invoice). Final determination of warranty coverage lies solely with Symetrix. Products repaired under warranty will be returned freight prepaid via commercial carrier by Symetrix, to any location within the Continental United States. Outside the Continental United States, products will be returned freight collect.

The foregoing warranties are in lieu of all other warranties, whether oral, written, express, implied or statutory. Symetrix, Inc. expressly disclaims any IMPLIED warranties, including fitness for a particular purpose or merchantability. Symetrix's warranty obligation and buyer's remedies hereunder are SOLELY and exclusively as stated herein.

This Symetrix product is designed and manufactured for use in professional and studio audio systems and is not intended for other usage. With respect to products purchased by consumers for personal, family, or household use, **Symetrix expressly disclaims all implied warranties, including but not limited to warranties of merchantability and fitness for a particular purpose.**

This limited warranty, with all terms, conditions and disclaimers set forth herein, shall extend to the original purchaser and anyone who purchases the product within the specified warranty period.

Symetrix does not authorize any third party, including any dealer or sales representative, to assume any liability or make any additional warranties or representation regarding this product information on behalf of Symetrix.

This limited warranty gives the buyer certain rights. You may have additional rights provided by applicable law.

Note: Some Symetrix products contain embedded software or apps and may also be accompanied by control software intended to be run on a personal computer. Said software is specifically excluded from this warranty.

Limitation of Liability

The total liability of Symetrix on any claim, whether in contract, tort (including negligence) or otherwise arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair, replacement or use of any product will not exceed the price allocatable to the product or any part thereof which gives rise to the claim. In no event will Symetrix be liable for any incidental or consequential damages including but not limited to damage for loss of revenue, cost of capital, claims of customers for service interruptions or failure to supply, and costs and expenses incurred in connection with labor, overhead, transportation, installation or removal of products, substitute facilities or supply houses.

Servicing Your Symetrix Product

If you have determined that your Symetrix product requires repair services and you live outside of the United States please contact your local Symetrix dealer or distributor for instructions on how to obtain service. If you reside in the U.S. then proceed as follows:

Return Authorization

At the Symetrix factory, Symetrix will perform in-warranty or out-of-warranty service on any product it has manufactured for a period of three (3) years from date of discontinued manufacture.

Before sending anything to Symetrix, please contact our Customer Service Department for a Return Authorization (RA) number. The telephone number is +1.425.778.7728. Additionally, support is available via the web site: http://www.symetrix.co/knowledge-base.

In-warranty Repairs

To get your Symetrix product repaired under the terms of the warranty:

1. Call us for an RA number (have the serial number, shipping and contact information and description of the problem ready).
2. Pack the device in its original packaging materials.
3. Include your name, address, daytime telephone number, and a brief statement of the problem.
4. Write the RA number on the **outside** of the box.
5. Ship the device to Symetrix, freight prepaid. We do not accept freight collect shipments.

Just do these five things, and repairs made in-warranty will cost you only one way freight charges. We'll pay the return freight.

If you don't have the factory packaging materials, we recommend using an oversize box. Wrap the device in a plastic bag, surround it with bubble-wrap, and place it in the box surrounded by Styrofoam peanuts. Be sure there is enough clearance in the box to protect the rack ears. We won't return the device in anything but Symetrix packaging for which we will have to charge you. If the problem is due to operator misuse or error, you will have to pay for both parts and labor. In any event, if there are charges for the repair, you will pay for the return freight. Payment for all charges must be pre-arranged (prepaid, Visa or Mastercard).

Out-of-warranty Repairs

If the warranty period has passed, you'll be billed for all necessary parts, labor, packaging materials, and freight charges. Please remember, you must call for an RA number before sending the device to Symetrix.