



Symetrix xOut 12 Analog 12 Output SymNet Audio I-O User Guide

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QUICK START GUIDE: xIn 12 and xOut 12

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What Ships in the Box

- xIn 12 or xOut 12 hardware device.

- 12 detachable 3.81 mm terminal block connectors.
- A North American (NEMA) and Euro IEC power cable. You may need to substitute a cable appropriate for your locale.
- This Quick Start Guide.

What You Need to Provide

A Windows PC with 1 GHz or higher processor and:

- Windows 10® or higher.
- 410 MB free storage space.
- 1024×768 graphics capability.
- 16-bit or higher colors.
- Internet connection.
- 1 GB or more of RAM as required by your operating system.
- A Symetrix Radius, Prism, or Edgehardware device.
- CAT5/6 cable or an existing Dante network.

Getting Help

Composer, the Windows software that configures xIn 12 and xOut 12 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 ext. 5 6:00 am to 5:00 pm PST Monday through Friday

Web: <https://www.symetrix.co>

Email: support@symetrix.co

Forum: <https://forum.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 appareil numérique de la classe B respecte toutes les Exigences du Règlement sur le matériel 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. Ensure proper ESD control and grounding when handling exposed I/O terminals.
11. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
12. Only use attachments/accessories specified by the manufacturer.
13. 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.
14. Unplug this apparatus during lightning storms or when unused for long periods of time.
15. 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.



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

AVIS: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

SEE OWNERS MANUAL. VOIR CAHIER D'INSTRUCTIONS. No user serviceable parts inside. Refer servicing to qualified service personnel.

- **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

Composer is the software that provides real-time set-up and control of xIn 12 and xOut 12 from a Windows PC environment.

Use the following procedure to install Composer on your computer.

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

1. Download the 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 xIn 12 nor the xOut 12 functions stand-alone as Composer software cannot communicate with them directly. Therefore, xIn 12 and xOut 12 require a Radius, Prism, or Edge 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 Radius, Prism, or Edge unit.

Basic Connections

1. Connect your PC to an Ethernet port on the Radius, Prism, or Edge unit.
2. Daisy chain the Dante ports of all units. It is not necessary to complete a loop, i.e., do not connect the last unit back to the first unit.

Network Setup

About DHCP

Radius, Prism, and Edge 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, Radius, Prism, and Edge 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.

When there is no DHCP server present to assign IP addresses to either Radius, Prism, or Edge, and you are using Windows default network settings, your PC will set an IP in the range of 169.254.x.x with a Subnet Mask of 255.255.0.0 in order to communicate with Radius, Prism, or Edge. This default setting to an Automatic Private IP Address in the range of 169.254.x.x uses the last four alphanumeric characters of Radius, Prism, or Edge's MAC address (MAC address hex value is converted to decimal for IP address) for the x.x values. For reference, Radius,

Prism, and Edge's MAC address can be found on a sticker on the bottom of the hardware.

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

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

The Radius, Prism, Edge, 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 Radius, Prism, or Edge are on different subnets).

If you are putting Radius, Prism, or Edge 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 Radius, Prism, or Edge 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 Radius, Prism, or Edge, you may allow Radius, Prism, or Edge 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:

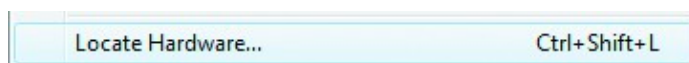
1. 172.16.0.0/12 = IP Addresses 172.16.0.1 through 172.31.254.254 and a Subnet Mask of 255.240.0.0
2. 192.168.0.0/16 = IP Addresses 192.168.0.1 through 192.168.254.254 and a Subnet Mask of 255.255.0.0
3. 10.0.0.0/8 = IP Addresses 10.0.0.1 through 10.254.254.254 and a Subnet Mask of 255.255.0.0

Connecting to xIn 12 and xOut 12 through a Firewall/VPN

We have successfully tested control of xIn 12 and xOut 12'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 Radius, Prism, and Edge



- or -



Discovery of, and connection to, Radius, Prism, and Edge 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 Radius, Prism, or Edge unit itself.

IP Configuration with Composer

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

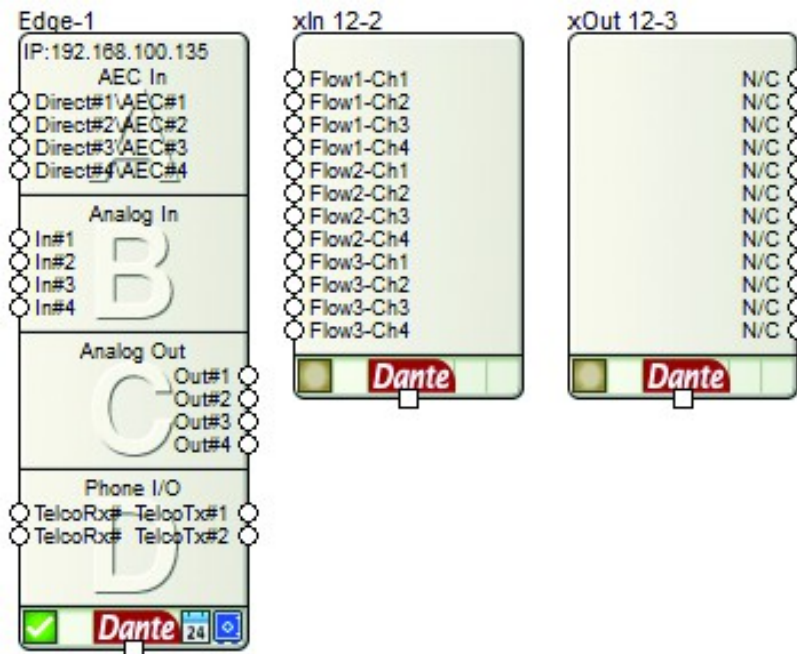
- or -



IP Configuration with the Front Panel

Radius, Prism, and Edge IP information can also be edited from the front panel. Radius, Prism, and Edge'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 12 and xOut 12

Once you have placed a Radius, Prism, or Edge in your Site File and located it, place xIn 12 and xOut 12 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.

Locate Hardware

xIn 12 unit to locate: 'xIn 12-2'

Select a located and enabled Edge/Radius unit from the design to use to locate this xIO unit over Dante.

Edge: 'Edge-1' IP: 192.168.100.135

Select an available hardware unit on the Dante network:

Name	MAC Address	IP	Firmware
xIn-12-2	00:1D:C1:06:67:4A	169:254:12:43	1.04

Flash Unit LEDs
Refresh

Select Hardware Unit
Close

The Locate Hardware dialog will scan the selected Radius, Prism, or Edge unit and list xIn or xOut 12 units. Select the physical xIn or xOut 12 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:

xIn 12 and xOut 12 to which this declaration relates, is in conformity with the following standards:
IEC 60065, EN 55103-1, EN 55103-2, FCC Part 15, RoHS, UKCA, EAC

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: December 8, 2012 Place of issue: Mountlake Terrace, Washington, USA

Authorized signature:



Mark Graham, CEO, Symetrix Incorporated.

The Symetrix Limited Warranty

By using Symetrix products, the Buyer agrees to be bound by the terms of this Symetrix Limited Warranty. Buyers should not use Symetrix products until the terms of this warranty have been read.

What is Covered by this Warranty:

Symetrix, Inc. expressly warrants that the product will be free from defects in material and workmanship for five (5) years from the date the product is shipped from the Symetrix factory. Symetrix's obligations under this warranty will be limited to repairing, replacing, or partially crediting original purchase price at Symetrix's option, the part or parts of the product which prove defective in material or workmanship within the warranty period, provided that the Buyer gives Symetrix prompt notice of any defect or failure and satisfactory proof thereof. Symetrix may, at its option, require proof of the original date of purchase (copy of original authorized Symetrix Dealer's or Distributor's invoice). Final determination of warranty coverage lies solely with Symetrix. This Symetrix product is designed and manufactured for use in professional 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 from an authorized Symetrix Dealer or Distributor. This limited warranty gives the Buyer certain rights. The Buyer may have additional rights provided by applicable law.

What is not Covered by this Warranty:

This warranty does not apply to any non-Symetrix branded hardware products or any software even if packaged or sold with Symetrix Products. 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 warranty also does not apply to the following:

1. Damage caused by improper use, care, or maintenance or failure to follow the instructions contained in the Quick Start Guide or Help File.
2. Symetrix product that has been modified. Symetrix will not perform repairs on modified units.
3. Symetrix software. Some Symetrix products contain embedded software or apps and may also be accompanied by control software intended to be run on a personal computer.
4. Damage caused by accident, abuse, misuse, exposure to liquids, fire, earthquake, acts of God, or other external causes.
5. Damage caused by improper or unauthorized repair of a unit. Only Symetrix technicians and Symetrix international distributors are authorized to repair Symetrix products.
6. Cosmetic damage, including but not limited to, scratches and dents, unless failure has occurred due to a defect in materials or workmanship within the warranty period.
7. Conditions caused by normal wear and tear or otherwise due to the normal aging of Symetrix products.
8. Damage caused by use with another product.
9. Product on which any serial number has been removed, altered or defaced.
10. Product that isn't sold by an authorized Symetrix Dealer or Distributor.

Buyer Responsibilities:

Symetrix recommends the Buyer make backup copies of site files before having a unit serviced. During service it is possible that the site file will be erased. In such an event, Symetrix is not responsible for the loss or the time it takes to reprogram the site file.

Legal Disclaimers and Exclusion of other Warranties:

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.

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 retail price of 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 Buyers 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 a Symetrix Product:

The remedies set forth herein shall be the Buyer's sole and exclusive remedies with respect to any defective product. No repair or replacement of any product or part thereof will extend the applicable warranty period for the entire product. The specific warranty for any repair will extend for a period of 90 days following the repair or the remainder of the warranty period for the product, whichever is longer.

Residents of the United States may contact the Symetrix Technical Support Department for a Return Authorization (RA) number and additional in-warranty or out-of-warranty repair information.

If a Symetrix product requires repair services outside of the United States please contact the local Symetrix dealer


or distributor for instructions on how to obtain service.

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. 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.

PN 53-0062 Rev C 02/22
www.symetrix.co | +1.425.778.7728

Documents / Resources

	<p>Symetrix xOut 12 Analog 12 Output SymNet Audio I-O [pdf] User Guide xIn 12, xOut 12, xOut 12 Analog 12 Output SymNet Audio I-O, xOut 12, Analog 12 Output Sym Net Audio I-O, Output SymNet Audio I-O, SymNet Audio I-O, Audio I-O, I-O</p>
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References

-  [Symetrix – Inspired AV Processing & Control Solutions](#)
-  [Symposium - Information](#)
-  [Symetrix – Inspired AV Processing & Control Solutions](#)

Manuals+