


Symetrix
Jupiter 4, 8,
12 Signal
Processor



Symetrix Jupiter 4, 8, 12 Signal Processor User Guide

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Symetrix Jupiter 4, 8, 12 Signal Processor



Specifications:

- **Product Model:** Jupiter Series (Jupiter 4, Jupiter 8, Jupiter 12)
- **Power Supply:** VDC @ 1.0 amperes, 100-240 VAC input
- **Compliance:** Class B digital device, FCC Part 15

Product Usage Instructions

Important Safety Instructions:

1. Read all provided instructions carefully.
2. Heed and follow all warnings and instructions.
3. Avoid placing the apparatus near water or any liquid-filled objects.
4. Clean the apparatus only with a dry cloth.

Installation and Setup:

1. Ensure proper ventilation by not blocking any ventilation openings.
2. Avoid placing the apparatus near heat sources like radiators, stoves, or amplifiers.
3. Connect the apparatus to a mains socket outlet with protective earthing connection.
4. Handle exposed I/O terminals with proper ESD control and grounding.

Power Cord and Accessories:

1. Protect the power cord from being walked on or pinched.
2. Use only attachments/accessories specified by the manufacturer.

Operation and Maintenance:

1. Unplug the apparatus during lightning storms or long periods of non-use.

2. Refer all servicing to qualified service personnel when needed.

Getting Help:

If you need further assistance beyond this guide, contact Technical Support:

- Tel: +1.425.778.7728 ext. 5
- Email: support@symetrix.co
- Web: <https://www.symetrix.co>
- Forum: <https://www.symetrix.co/Forum>

What Ships in the Box

- Jupiter (4, 8, or 12) hardware device
- Switching power supply which provides 24 VDC @ 1.0 amperes.
NOTE: This power supply will accept a 100-240 VAC input
- A North American (NEMA) and Euro IEC power cable. You may need to substitute a cable appropriate for your locale 12 or 20 detachable 3.81 mm terminal block connectors
- This Quick Start Guide

What You Need to Provide

- Windows PC with the following minimum specifications:
- 1 GHz or higher processor
- 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
- Network (Ethernet) interface
- CAT5/6 cable or an existing

Ethernet network

Getting Help Jupiter software, the Windows software that controls the 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 Technical

Support Group in the following ways:

Tel: +1.425.778.7728 ext. 5

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

Email: support@symetrix.co

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

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.

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.

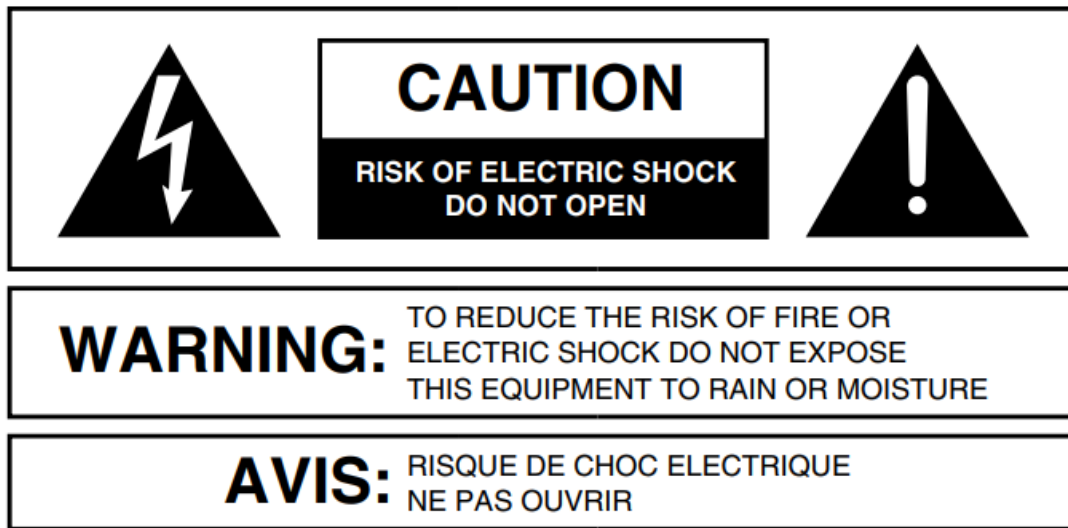
6. Clean only with dry cloth.
7. Do not block any ventilation openings.

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.



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.
- **Lithium Battery Caution:** Observe the correct polarity when changing the lithium battery. There is a danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. Dispose of used batteries according to local disposal requirements.
- **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>.

WARNING

The RJ45 connectors labeled "ARC" are only for use with the ARC series of remotes.

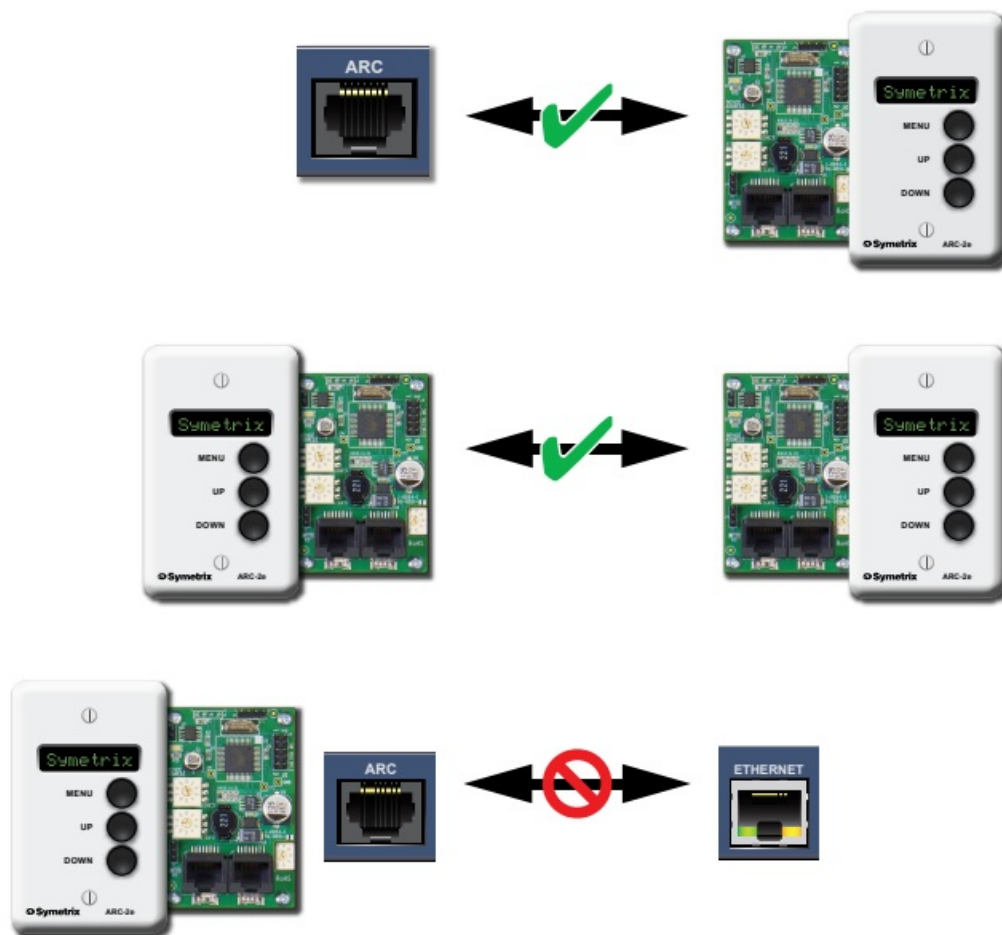
DO NOT plug the ARC connectors on Symetrix products into any RJ45 connector labeled "ETHERNET".

The "ARC" RJ45 connectors on Symetrix products can carry anywhere from 6 to 24 VDC which can damage Ethernet circuitry.

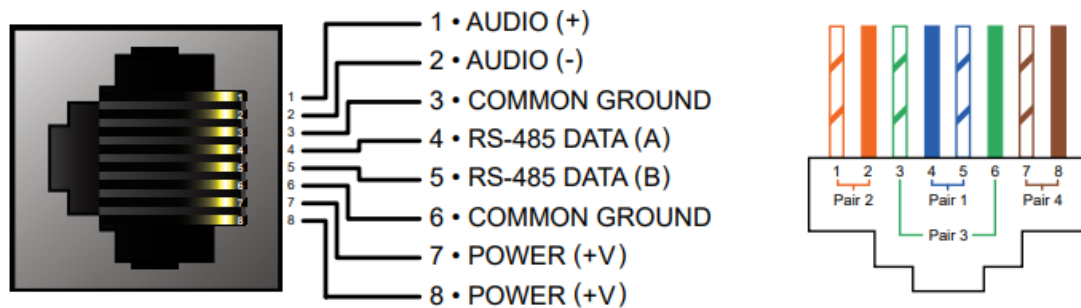
ARC Pinout

The RJ45 jack distributes power and RS-485 data to one or more ARC devices. Uses standard straight-through UTP CAT5/6 cabling.

Warning! Refer to the RJ45 Warning for compatibility information.



ARC PORT PINOUT



Note: The ARC Audio line may be grounded at the Symetrix rack-mount device and the ARC wall panel to provide additional distance.

The Symetrix ARC-PSe provides serial control and power distribution over standard CAT5/6 cable for systems with more than 4 ARCs, or when any number of ARCs are located long distances from an Integrator Series, Jupiter or Symetrix DSP unit.

ARC Distance Table

The following table provides at-a-glance cable length limitations based on DC power (the table is not relevant if only RS-485 is distributed) and assumes 24 gauge CAT5/6 cabling. The lengths for multiple ARCs on a single chain assume equal distance for each cable segment between ARCs. Table is intended for quick reference only. For more detailed configuration scenarios, refer to the ARC Power Calculator available from the support section of the Symetrix web site.

CABLE SEGMENT LENGTH LIMITATIONS FOR ARC POWER OVER CAT-5/6 CABLE				
	ARC TYPE			
Number of ARC's on chain	ARC-3	ARC-2e	ARC-K1e	ARC-SW4e
1	3000'	3000'	3250'	3250'
2	1100'	1200'	3000'	3000'
3	550'	700'	1250'	1250'
4	300'	350'	750'	750'

Special note: for multiple ARCs on single chain, the listed value is assumed to be the cable length between each device. For example, a value of 600' means 600' between the DSP unit and the first ARC, 600' between the first and second ARCs, etc. The total cable length will be the listed segment length multiplied by the number of ARCs on the chain.

MAXIMUM NUMBER OF ARC EXPANSIONS UNITS POSSIBLE PER MODULAR ARC BASE UNIT	
MODULAR ARC BASE UNIT	ARC-EX4e
ARC-K1e	4
ARC-SW4e	3

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 representations 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 (In Composer: Help > Help Topics).
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 is not 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 inwarranty or out-of-warranty repair information.

If a Symetrix product outside of the United States requires repair services, please contact your regional Symetrix distributor for instructions on how to obtain service. A product may be returned by Buyer only after a RA number 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.

Advance Replacements

Units which are out of warranty or sold outside the United States do not qualify for Advance Replacement. In-warranty units that fail within 90 days, may be replaced or repaired depending on available service inventory at Symetrix's discretion. Customer is responsible for return shipping of equipment to Symetrix. Any repaired equipment will be shipped back to customer at Symetrix' cost.

Advance replacements will be invoiced as a normal sale through authorized Symetrix dealers and distributors. The defective unit must be returned 30 days from RA issue date and will be credited against the replacement unit invoice after it has been evaluated by our service department. If no problem is found, an evaluation fee will be deducted from the credit.

Units returned without a valid Return Authorization number may be subject to significant delays in processing. Symetrix is not liable for delays due to equipment returned without a valid Return Authorization number.

Returns and Restocking Fees

All returns are subject to approval by Symetrix. No credit will be issued for any item returned after 90 days from the invoice date.

Return due to Symetrix Error or Defect

Units returned within 90 days will not be subject to a restocking fee and credited in full (including freight). Symetrix assumes cost of return shipping.

Return for Credit (not due to Symetrix error):

Units in a factory sealed box and purchased within 30 days can be returned without a restock fee in exchange for a PO of greater value. Symetrix is not liable for return shipping.

Restock Fee Schedule for Returns for Credit (not due to Symetrix error):

Factory Seal Intact

- 0-30 days from invoice date 10% if no replacement PO of equal or greater value is placed.
- 31-90 days from invoice date 15%.
- Returns not accepted after 90 days.

Factory Seal Broken

- May be returned up to 30 days and the restocking fee is 30%.
- Symetrix is not liable for return shipping.

Out of Warranty Repairs

Symetrix will attempt to repair units outside of warranty for up to seven years from the invoice date, but repairs are not guaranteed.

The Symetrix web site lists partners who are authorized and qualified to perform repairs on units beyond seven (7) years from invoiced date. Repair rates and turnaround times for out of warranty Symetrix equipment are set solely

by these partners and are not dictated by Symetrix.

Declaration of Conformity

We, Symetrix Incorporated,
12123 Harbour Reach Dr. Ste. 106 Mukilteo, WA, 98275 USA declare under our sole responsibility that the product:

Jupiter 4, Jupiter 8, and Jupiter 12 to which this declaration relates, is in conformity with the following standards:
IEC 60065, EN 55103-1, EN 55103-2, FCC Part 15, UKCA, EAC, RoHS (health/environmental)

Technical construction files maintained at:
Symetrix, Inc. 12123 Harbour Reach Dr. Ste. 106
Mukilteo, WA, 98275 USA
Date of issue: April 26, 2010.
Place of issue: Mukilteo, Washington, USA
Authorized signature:



Mark Graham, CEO
Symetrix Incorporated.

FAQ

Q: What should I do if the apparatus is exposed to water?

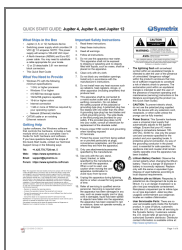
A: Immediately disconnect the power supply and contact Technical Support for guidance on further steps.

Q: Can I use the apparatus with a different power supply?

A: No, it is recommended to use the specified power supply to ensure proper functionality and safety.

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Documents / Resources



[Symetrix Jupiter 4, 8, 12 Signal Processor](#) [pdf] User Guide
Jupiter 4, Jupiter 8, Jupiter 12, Jupiter 4 8 12 Signal Processor, Jupiter 4 8 12, Signal Processor, Processor

References

- [Symetrix - Inspired AV Processing & Control Solutions](#)
- [Symetrix - Inspired AV Processing & Control Solutions](#)
- [Symetrix Forum – Symetrix](#)
- [User Manual](#)

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