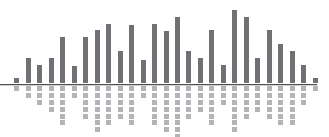


DSP Done Right.

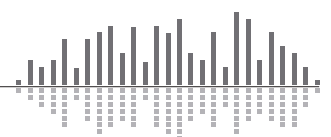


Full Line Catalog

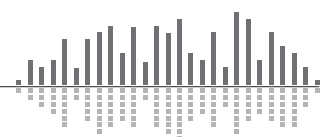
2017 v1.1



DSP Hardware	
Radius	
Radius 12x8 EX • Powerful General Purpose DSP 128 Channel (64x64) Redundant Dante™ On-board Ethernet and Dante Network Switches 12x8 Analog I/O 1 I/O Expansion Card Slot Internal Universal Input Power Supply	4
Radius AEC • Powerful General Purpose DSP Plus 8 Channels of Dedicated AEC 128 Channel (64x64) Redundant Dante™ On-board Ethernet and Dante Network Switches 12x8 Analog I/O 1 I/O Expansion Card Slot Internal Universal Input Power Supply	4
Edge	
Edge • Powerful DSP Featuring Flexible Input/Output Configurations 128 Channel (64x64) Redundant Dante™ On-board Ethernet and Dante Network Switches 4 I/O Expansion Card Slots Internal Universal Input Power Supply	5
Prism	
Prism 0x0 • DSP Identical to Radius, Edge, Solus NX 128 Channel (64x64) Dante PoE+ 1/2 Rack	5
Prism 4x4 • DSP Identical to Radius, Edge, Solus NX 128 Channel (64x64) Dante 4x4 Analog Input/Output PoE+ 1/2 Rack	6
Prism 8x8 • DSP Identical to Radius, Edge, Solus NX 128 Channel (64x64) Dante 8x8 Analog Input/Output External Universal Input Power Supply	6
Prism 12x12 • DSP Identical to Radius, Edge, Solus NX 128 Channel (64x64) Dante 12x12 Analog Input/Output External Universal Input Power Supply	7
Prism 16x16 • DSP Identical to Radius, Edge, Solus NX 128 Channel (64x64) Dante 16x16 Analog Input/Output External Universal Input Power Supply	7
Solus NX	
Solus NX 4x4 • DSP Identical to Radius, Edge, Prism 4x4 Analog Input/Output Standalone Operation External Universal Input Power Supply	8
Solus NX 8x8 • DSP Identical to Radius, Edge, Prism 8x8 Analog Input/Output Standalone Operation External Universal Input Power Supply	8
Solus NX 16x8 • DSP Identical to Radius, Edge, Prism 16x8 Analog Input/Output Standalone Operation External Universal Input Power Supply	9
Jupiter Zone Mix 761	
Jupiter 4 • Programmed Using Free Turn-key Apps 4x4 Analog Input/Output Standalone Operation External Universal Input Power Supply	9
Jupiter 8 • Programmed Using Free Turn-key Apps 8x8 Analog Input/Output Standalone Operation External Universal Input Power Supply	10
Jupiter 12 • Programmed Using Free Turn-key Apps 12x4 Analog Input/Output Standalone Operation External Universal Input Power Supply	10
Zone Mix 761 • Turn-key Programming Four Mic Inputs Eight Audio Media Inputs Six Zone Outputs Optimized for Paging and Background Music Management	11
Voice Processor 2x	
Voice Processor 2x • Specifically Designed for Voice Processing Two Independently Programmable Channels Analog Mic/Line Inputs Analog and AES/EBU Digital Outputs Internal Universal Input Power Supply Turn-key Rapid Deployment	11
Software	
Composer • Programs Radius, Edge, Prism, and Solus NX Open-architecture DSPs and Accessories	12
SymVue • Composer-based Authoring of End-User Graphic Interfaces Exports Network Resident Control Screens for Windows PCs and Tablets	12
ARC-WEB • A Virtual User Interface to Symetrix DSP Embedded Web Servers User Control of Presets, Volume, Mute and Source Selection from Smartphones, Tablets, and PCs	13
Jupiter Software • Downloadable Turn-Key Audio Processing Over 70 Apps Covering Mixing and Routing, Public Address and Distribution, Sound Reinforcement, and Special Purpose Signal Processing	13
Zone Mix 761 Software • A Full-Featured Turn-Key Background Music and Paging Application Familiar Hardware-like Layout Ultra Fast Programming for Rapid Deployment	14
Voice Processor 2x Software • Programming of All Essential Voice Parameters In Up to 50 Named Presets Optimization of Male and Female Voices Ultra Fast Programming for Rapid Deployment	14



Accessories	
Dante-enabled Analog Input/Output Expanders	
xIn 4 4 Channel Analog Input Expander, 4 Channel Dante Transmit. For Use with Dante-Enabled Symetrix DSPs. PoE. Software Controlled- No Mechanical Switches or Circuit Board Jumpers. Low Cost Solution.	15
xOut 4 4 Channel Analog Output Expander, 4 Channel Dante Receive. For Use with Dante-Enabled Symetrix DSPs. PoE. Software Controlled- No Mechanical Switches or Circuit Board Jumpers. Low Cost Solution.	15
xIO 4x4 4 Channel Analog Input and Output Expander, 4 Channel Dante Transmit and Receive. For Use with Symetrix Dante-Enabled DSPs. PoE. Software Controlled- No Mechanical Switches or Circuit Board Jumpers. Low Cost Solution.	16
xIn 12 12 Channel Analog Input Expander, 12 Channel Dante Transmit. For Use with Dante-enabled Symetrix DSPs. Software Controlled- No Mechanical Switches or Circuit Board Jumpers. Low Cost Solution.	16
xOut 12 12 Channel Analog Output Expander, 12 Channel Dante Receive. For Use with Dante-Enabled Symetrix DSPs. Software Controlled- No Mechanical Switches or Circuit Board Jumpers. Low Cost Solution.	17
Radius and Edge Expansion Cards	
4 Channel Analog Input Card Optional Card Expands Mic/Line Input Capacity.	17
4 Channel Analog Output Card Optional Card Expands Output Capacity.	17
4 Channel AEC Input Card Optional Card Expands Input Capacity While Adding AEC Functionality.	18
4 Channel Digital Input Card Optional Card Adds AES/EBU or S/PDIF Digital Input Capability.	18
4 Channel Digital Output Card Optional Card Adds AES/EBU or S/PDIF Digital Output Capability.	18
2 Line Analog Telephone Interface Card Optional Card Adds Analog (POTS) Capability.	18
2 Line VoIP Interface Card Optional Card Adds Voice Over IP Capability.	19
ARC Wall Panels and External Control Expander	
ARC-3 End User Control of Symetrix DSPs. Wall Panel Controller with Graphical Menu. Flexible and Extensible.	19
ARC-2e End User Control of Symetrix DSPs. Wall Panel Controller with Text Menu. Flexible and Extensible.	20
ARC-K1e End User Control of Symetrix DSPs. Wall Panel Controller with Rotary Encoder. Flexible and Extensible.	20
ARC-SW4e End User Control of Symetrix DSPs. Wall Panel Controller with Push-buttons. Flexible and Extensible.	21
ARC-EX4e End User Control of Symetrix DSPs. Wall Panel Controller with Push-buttons. Flexible and Extensible.	21
RC-3 End User Control of Symetrix DSPs. Wall Panel Controller with Analog Potentiometer. Flexible and Extensible.	22
ARC-PSe ARC Wall Panels Power Supply. 1/2 Rack. Distributes Power and Data to Multiple ARC Wall Panels Via Eight RJ-45 Connectors Over Long Distances. Mounting Hardware Sold Separately.	22
xControl External Control Expander, 1/2 rack, PoE. Mounting Hardware Sold Separately.	23
1/2 Rack Mounting Hardware and Cables	
1/2 U Filler Panel Filler Panel Used with 19" 1U Rack Tray.	24
1/2 U Surface Mount Bracket Bracket for Surface-mounting Half-rack Units.	24
1 U Rack Tray 19" Rack Tray for Rack Mounting of Half-rack Units.	24
RCA to Euroblock Cable Adapter Cable for Consumer Devices like CDs and DVD Players.	24
3.5 mm TRS Mini to Euroblock Cable Adapter Cable for Consumer Devices like MP3 Players.	25



Radius 12x8 EX Powerful Open-architecture DSP | 128 Channel (64x64) Redundant Dante™

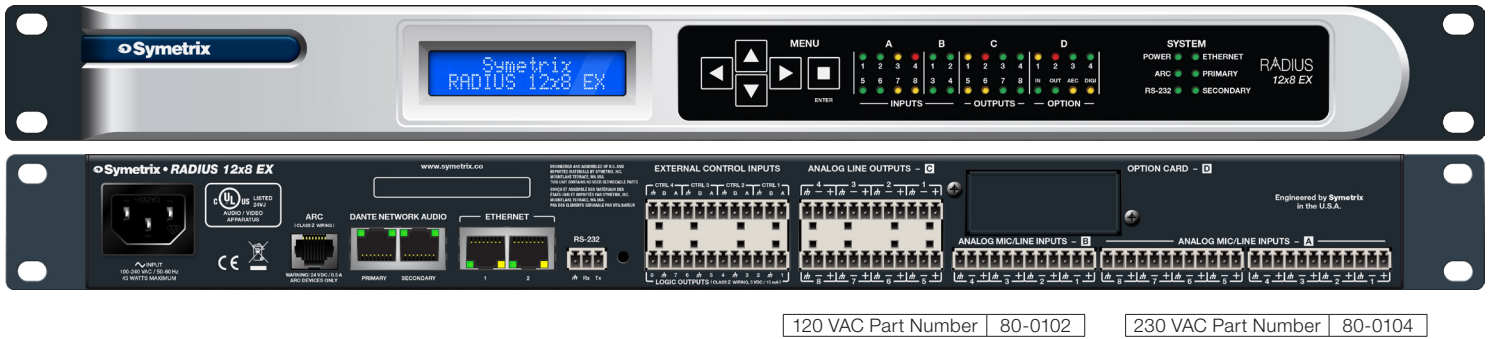
Product Highlights

- 128 (64x64) redundant Dante, 12x8 analog input/output.
- Programmed using Composer open-architecture software for nearly unlimited application flexibility.
- Built in network switches lower system cost, reduce or eliminate the need for peripheral switches, and increase system reliability.
- Together, Symetrix and Dante provide the fastest possible way to implement, control, and maintain a system of networked DSPs and accessories at the lowest possible cost.
- A versatile option card slot maximizes I/O and adds functionality including AEC, VoIP, analog telephone, and AES/EBU or S/PDIF.
- Industry leading analog mic-pre, A/D, and D/A performance, 48 volt phantom mic power.

- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.
- Embedded web server provides remote metering and diagnostics.
- Front panel LCD displays configuration, system status, and analog audio levels.

Compliance

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



Radius AEC Powerful Open-architecture DSP Plus 8 Channels of High Performance AEC | Dante™

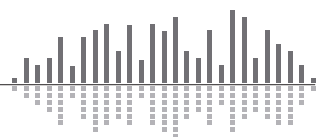
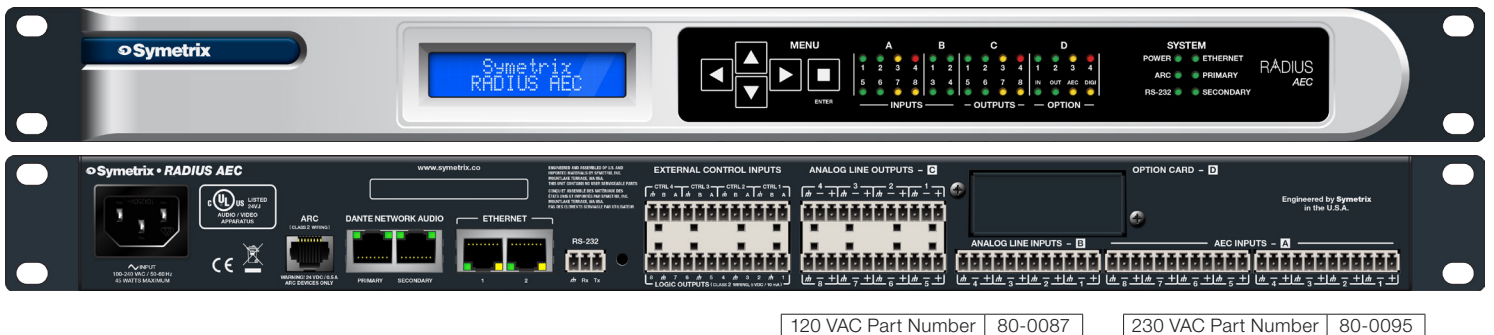
Product Highlights

- 128 Channel (64x64) Redundant Dante, 12x8 analog input/output.
- 8 channels of wideband acoustic echo cancelling, zero latency direct outputs, and discrete references per AEC channel.
- Programmed using Composer open-architecture software for nearly unlimited application flexibility.
- Built in network switches lower system cost, reduce or eliminate the need for peripheral switches, and increase system reliability.
- Together, Symetrix and Dante provide the fastest possible way to implement, control, and maintain a system of networked DSPs and accessories at the lowest possible cost.
- A versatile option card slot maximizes I/O and adds functionality including AEC, VoIP, analog telephone, and AES/EBU or S/PDIF.

- Industry leading analog mic-pre, A/D, and D/A performance, 48 volt phantom mic power.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.
- Embedded web server provides remote metering and diagnostics.
- Front panel LCD displays configuration, system status, and analog audio levels.

Compliance

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



Edge Powerful Open-architecture DSP | 128 Channel (64x64) Redundant Dante™ | Configurable I/O

Product Highlights

- 128 (64x64) redundant Dante.
- Extreme flexibility - programmed using Composer open-architecture software.
- Four configurable I/O card slots, up to 16 channels total of local I/O accepting any combination of Symetrix options cards.
- Built in network switches lower system cost, reduce or eliminate need for peripheral switches, and increase system reliability.
- Together, Symetrix and Dante provide the fastest possible way to implement, control, and maintain a system of networked DSPs and accessories at the lowest possible cost.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.
- Embedded web server provides remote metering and diagnostics.
- Optional redundant external power supply.
- Eight logic inputs (or four analog control inputs) and eight logic outputs.
- Ethernet for configuration and control, and RS-232 for third-party control systems.

Compliance

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



120 VAC Part Number 80-0048

230 VAC Part Number 80-0082

Prism 0x0 Powerful Open-architecture DSP | 128 Channel (64x64) Dante™

Benefits and Features

- 128 (64x64) Dante and powerful Symetrix DSP combine extremely cost-effective processing with the flexibility of Dante networking.
- Together, Symetrix and Dante provide the fastest possible way to implement, control, and maintain a system of networked DSPs and accessories at the lowest possible cost.
- Programmed using Composer open-architecture software for nearly unlimited application flexibility.
- Ideal DSP hub for Dante end-points.
- Embedded web server provides remote metering and diagnostics.
- Compact 1/2 rack format. PoE+ injector included. Rack and surface mount kits sold separately.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.
- Ultra low latency Dante network audio protocol uses standard IT infrastructure.
- Front panel LCD displays configuration, system status, and analog audio levels using a single push-button for navigation.
- Analog I/O may be added using Symetrix Dante-enabled analog I/O expanders.

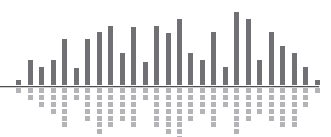
Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0130

230 VAC Part Number 80-0131



Prism 4x4 Powerful Open-architecture DSP | 128 Channel (64x64) Dante | 4x4 Analog In/Out

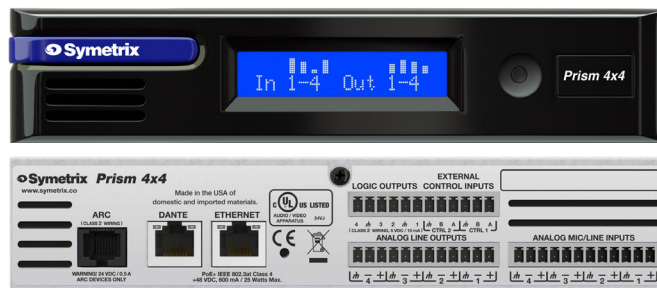
Product Highlights

- 128 (64x64) Dante and powerful Symetrix DSP, with 4x4 analog input/output, combine extremely cost-effective processing with the flexibility of Dante networking.
- Together, Symetrix and Dante provide the fastest possible way to implement, control, and maintain a system of networked DSPs and accessories at the lowest possible cost.
- Programmed using Composer open-architecture software for nearly unlimited application flexibility.
- Ideal DSP hub for Dante end-points.
- Embedded web server provides remote metering and diagnostics.
- Compact 1/2 rack format. PoE+ injector included. Rack and surface mount kits sold separately.

- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.
- Industry leading analog and A/D/D/A performance, 48 volt phantom mic power.
- Ultra low latency Dante network audio protocol uses standard IT infrastructure.
- Front panel LCD displays configuration, system status, and analog audio levels using a single push-button for navigation.
- Analog I/O count may be increased using Symetrix Dante-enabled analog I/O expanders.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0114

230 VAC Part Number 80-0118

Prism 8x8 Powerful Open-architecture DSP | 128 Channel (64x64) Dante | 8x8 Analog In/Out

Product Highlights

- 128 (64x64) Dante and powerful Symetrix DSP, with 8x8 analog input/output, combine extremely cost-effective processing with the flexibility of Dante networking.
- Together, Symetrix and Dante provide the fastest possible way to implement, control, and maintain a system of networked DSPs and accessories.
- Programmed using Composer open-architecture software for nearly unlimited application flexibility.
- Ideal DSP hub for Dante end-points.
- Embedded web server provides remote metering and diagnostics.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

- Industry leading analog and A/D/D/A performance, 48 volt phantom mic power.
- Ultra low latency Dante network audio protocol uses standard IT infrastructure.
- Front panel LCD displays configuration, system status, and analog audio levels using a single push-button for navigation.
- Analog I/O count may be increased using Symetrix Dante-enabled analog I/O expanders.

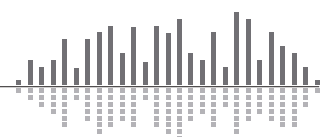
Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0115

230 VAC Part Number 80-0120



Prism 12x12 Powerful Open-architecture DSP | 128 Channel (64x64) Dante™ | 12x12 Analog In/Out

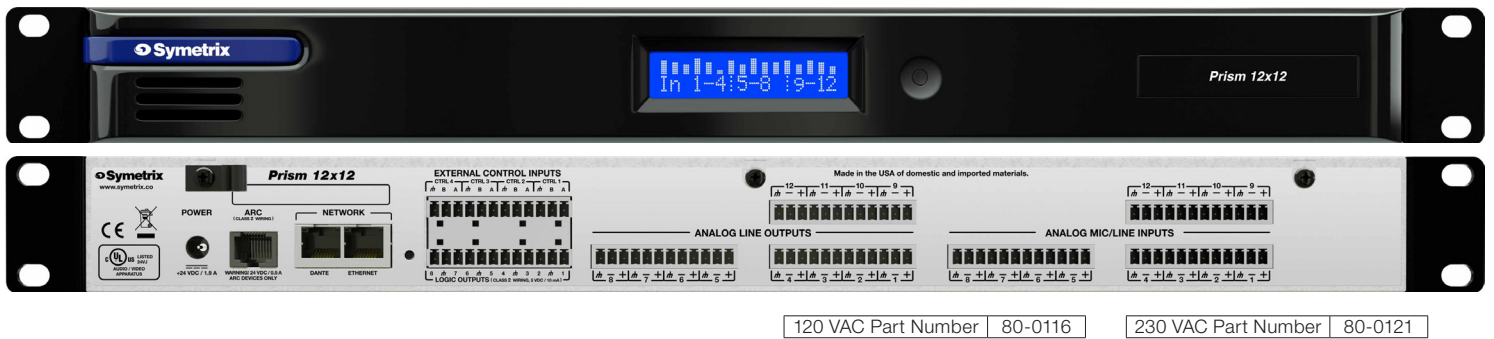
Product Highlights

- 128 (64x64) Dante and powerful Symetrix DSP, along with 12x12 analog input/output, combine extremely cost-effective processing with the flexibility of Dante networking.
- Together, Symetrix and Dante provide the fastest possible way to implement, control, and maintain a system of networked DSPs and accessories.
- Programmed using Composer open-architecture software for nearly unlimited application flexibility.
- Ideal DSP hub for Dante end-points.
- Embedded web server provides remote metering and diagnostics.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

- Industry leading analog and A/D/D/A performance, 48 volt phantom mic power.
- Ultra low latency Dante network audio protocol uses standard IT infrastructure.
- Front panel LCD displays configuration, system status, and analog audio levels using a single push-button for navigation.
- I/O count may be increased using Symetrix Dante-enabled analog I/O expanders.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



Prism 16x16 Powerful Open-architecture DSP | 128 Channel (64x64) Dante™ | 16x16 Analog In/Out

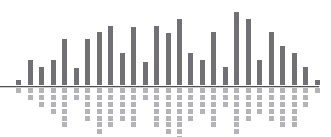
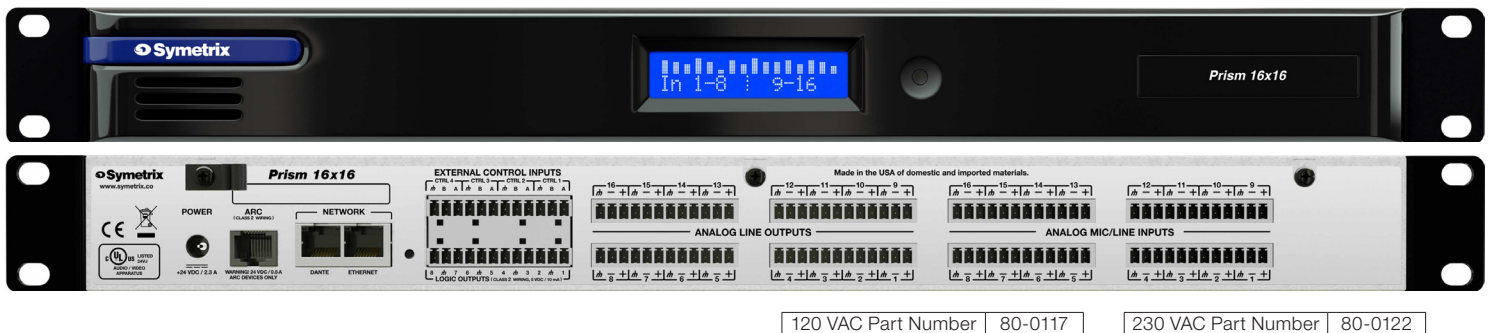
Product Highlights

- 128 (64x64) Dante and powerful Symetrix DSP, along with 16x16 analog input/output, combine extremely cost-effective processing with the flexibility of Dante networking.
- Together, Symetrix and Dante provide the fastest possible way to implement, control, and maintain a system of networked DSPs and accessories.
- Programmed using Composer open-architecture software for nearly unlimited application flexibility.
- Ideal DSP hub for Dante end-points.
- Embedded web server provides remote metering and diagnostics.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

- Industry leading analog and A/D/D/A performance, 48 volt phantom mic power.
- Ultra low latency Dante network audio protocol uses standard IT infrastructure.
- Front panel LCD displays configuration, system status, and analog audio levels using a single push-button for navigation.
- I/O count may be increased using Symetrix Dante-enabled analog I/O expanders.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



Solus NX 4x4 Powerful Open-architecture in a Standalone DSP | 4x4 Analog In/Out

Product Highlights

- Affordable 4x4 analog input/output DSP programmed using Composer open-architecture software for nearly unlimited application flexibility.
- DSP-intensive processing includes delay, loudspeaker management, auto-mixing, paging, routing and distribution, mic/line processing, AGC, room combining and much, much more.
- Processing, delay & memory identical to Radius / Edge / Prism.
- Embedded web server provides remote metering and diagnostics.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

- Front panel LCD displays configuration, system status, and analog audio levels using a single push-button for navigation.
- Serves in applications not requiring Dante™.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0128

230 VAC Part Number 80-0129

Solus NX 8x8 Powerful Open-architecture in a Standalone DSP | 8x8 Analog In/Out

Product Highlights

- Affordable 8x8 analog input/output DSP programmed using Composer open-architecture software for nearly unlimited application flexibility.
- DSP-intensive processing includes delay, loudspeaker management, auto-mixing, paging, routing and distribution, mic/line processing, AGC, room combining and much, much more.
- Processing, delay & memory identical to Radius / Edge / Prism.
- Embedded web server provides remote metering and diagnostics.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

- Front panel LCD displays configuration, system status, and analog audio levels using a single push-button for navigation.
- Serves in applications not requiring Dante™.

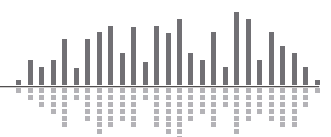
Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0126

230 VAC Part Number 80-0127



Solus NX 16x8 Powerful Open-architecture in a Standalone DSP | 16x8 Analog In/Out

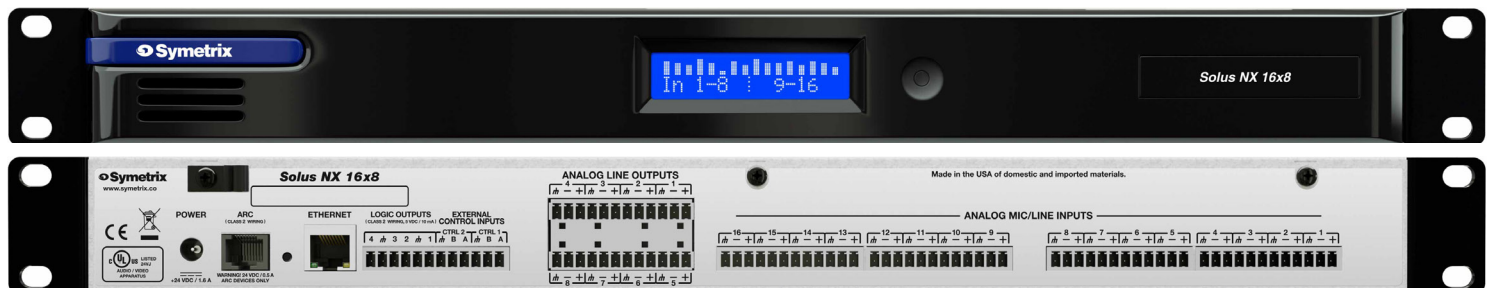
Benefits and Features

- Affordable 16x8 analog input/output DSP programmed using Composer open-architecture software for nearly unlimited application flexibility.
- DSP-intensive processing includes delay, loudspeaker management, auto-mixing, paging, routing and distribution, mic/line processing, AGC, room combining and much, much more.
- Processing, delay & memory identical to Radius / Edge / Prism.
- Embedded web server provides remote metering and diagnostics.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

- Front panel LCD displays configuration, system status, and analog audio levels using a single push-button for navigation.
- Serves in applications not requiring Dante™.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0124

230 VAC Part Number 80-0125

Jupiter 4 Powerful Turn-key DSP | Drawing Board to Jobsite in No Time | 4x4 Analog In/Out

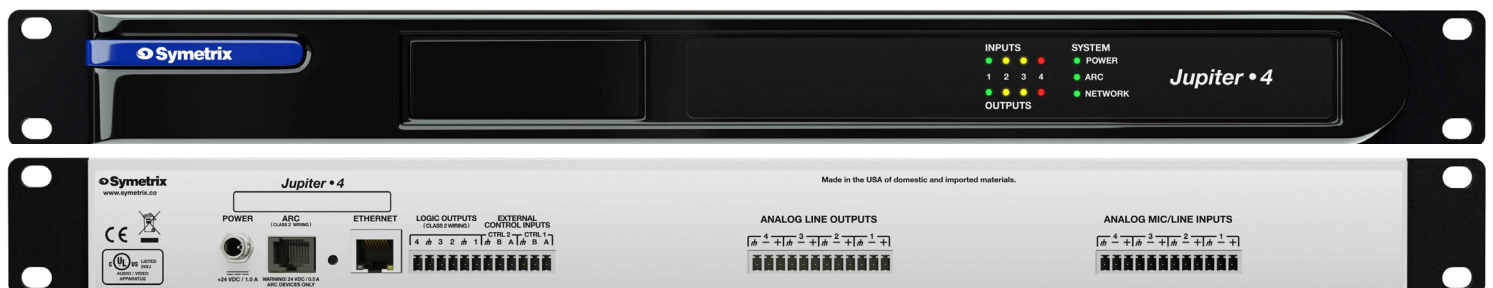
Product Highlights

- 4x4 analog input/output DSP with turn-key programming minimizes the learning curve and slashes installation costs.
- An abundance of DSP resources - powerful apps covering dynamics, EQ, FIR filters, feedback fighters, loudspeaker management, automixing, and matrixing.
- App categories include Mixing and Routing, Public Address and Distribution, Sound Reinforcement, and Special Purpose DSP.
- More than 70 Jupiter series apps do specific audio jobs.
- Once an app is selected it's simple to download it to Jupiter hardware.

- Signal routings, whether simple or complex, are fully tested and ready to go right out of the box.
- Help is built in with connection and remote control wizards.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

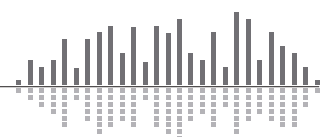
Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55103-1, EN 53103-2, FCC Part 15, RoHS.



120 VAC Part Number 80-0043

230 VAC Part Number 80-0047



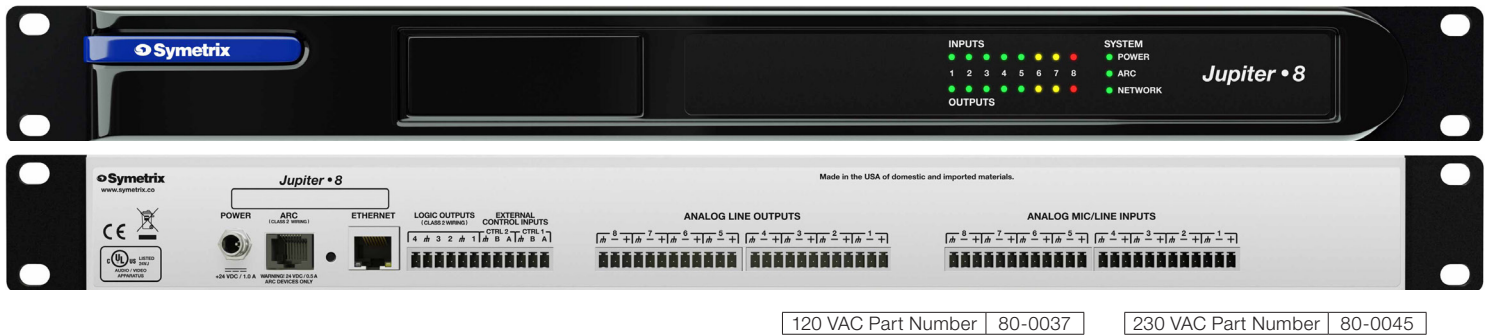
Jupiter 8 Powerful Turn-key DSP | Drawing Board to Jobsite in No Time at All | 8x8 Analog In/Out

Product Highlights

- 8x8 analog input/output DSP with turn-key programming minimizes the learning curve and slashes installation costs.
- An abundance of DSP resources - powerful apps covering dynamics, EQ, FIR filters, feedback fighters, loudspeaker management, automixing, and matrixing.
- App categories include Mixing and Routing, Public Address and Distribution, Sound Reinforcement, and Special Purpose DSP.
- More than 70 Jupiter series apps do specific audio jobs. Once an app is selected it's simple to download it to Jupiter hardware.
- Signal routings, whether simple or complex, are fully tested and ready to go right out of the box.
- Help is built in with connection and remote control wizards.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55103-1, EN 53103-2, FCC Part 15, RoHS.



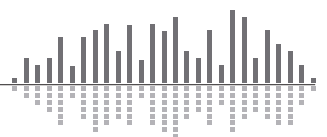
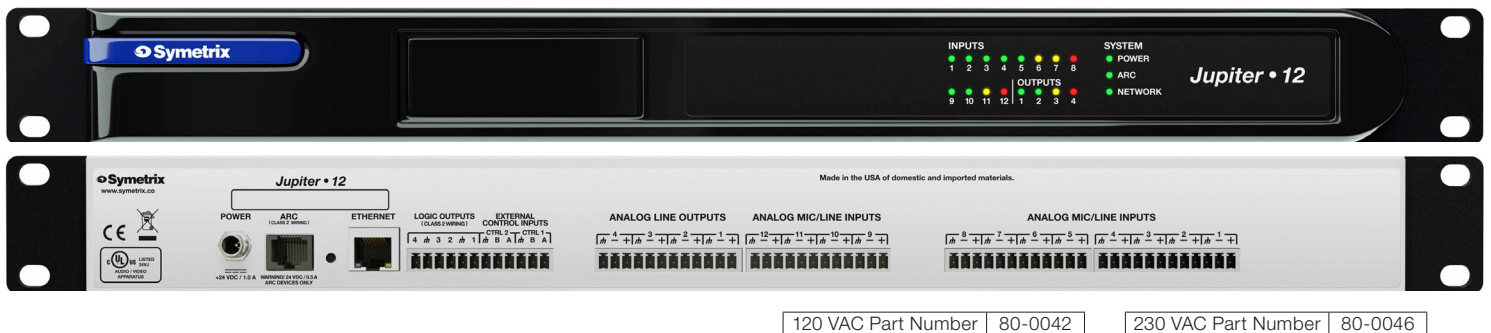
Jupiter 12 Powerful Turn-key DSP | Drawing Board to Jobsite in No Time at All | 12x4 Analog In/Out

Product Highlights

- 12x4 analog input/output DSP with turn-key programming minimizes the learning curve and slashes installation costs.
- An abundance of DSP resources - powerful apps covering dynamics, EQ, FIR filters, feedback fighters, loudspeaker management, automixing, and matrixing.
- App categories include Mixing and Routing, Public Address and Distribution, Sound Reinforcement, and Special Purpose DSP.
- More than 70 Jupiter series apps do specific audio jobs. Once an app is selected it's simple to download it to Jupiter hardware.
- Signal routings, whether simple or complex, are fully tested and ready to go right out of the box.
- Help is built in with connection and remote control wizards.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55103-1, EN 53103-2, FCC Part 15, RoHS.



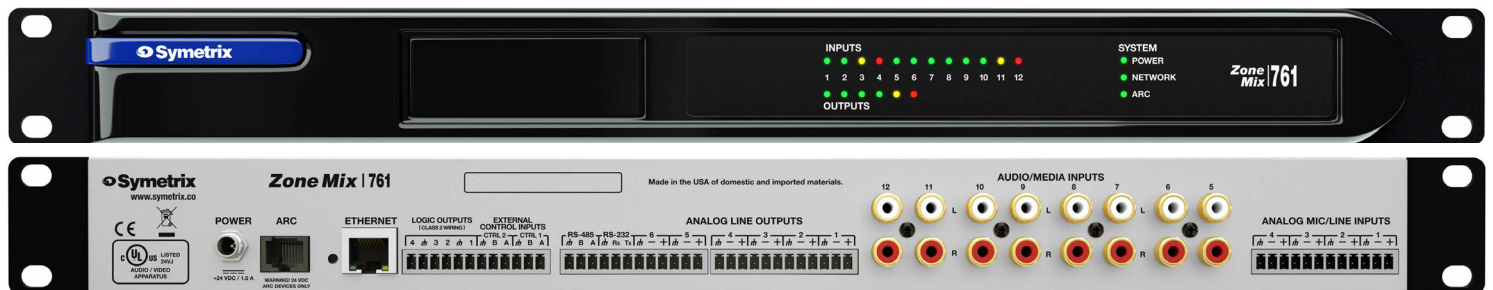
Zone Mix 761 Powerful Turn-key Multi-zone DSP for Paging and Music Management

Product Highlights

- A complete zone mixing, paging, and music management solution saves time and money.
- Turn-Key setup with plenty of inputs and outputs with the right connectors.
- Setup GUI provides a familiar hardware-like layout for a minimal learning curve.
- Software Connection Wizard enables fast and easy IP linking to hardware. The external control wizard guides effortless programming of multiple user control devices.
- 12 input and 6 output channels feature a full complement of processing including: dynamics, feedback elimination, ambient noise sensing, EQ, and loudspeaker management.
- Multiple user control options include the ARC-WEB browser, low cost ARC Wall Panels, third-party touch panels, and SymVue.
- 4 switchable mic or line inputs for paging from up to 3 locations plus emergency page, and 8 audio media inputs.
- 6 outputs route audio media inputs, plus paging, to as many as 6 unique locations.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55103-1, EN 53103-2, FCC Part 15, RoHS.



120 VAC Part Number 80-0070

230 VAC Part Number 80-0075

Voice Processor 2x Two Channel Programmable Digital Voice Processor | Analog and AES-3 Outputs

Product Highlights

- On-air talent find it simple to operate.
- Maintains quality assurance throughout voice talent signal chains with turn-key programming enabling rapid deployment.
- Supports up to 50 unique named presets which may be recalled from the front panel or remotely.
- An intuitive setup GUI reflecting actual hardware signal flow makes for quick and easy programming and hardware deployment.
- A DSP designed specifically for voice processing.
- 2 independently programmable channels of ultra-low latency digital mic processing in one rack space.
- Voice processing modules: Compression, EQ, de-essing, downward expansion, high and low pass filters, waveform symmetry.
- 2 mic/line inputs, word clock input, 2 mic/line outputs, 2 AES-3 outputs.

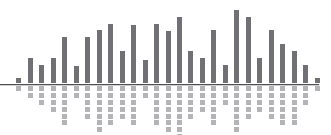
Compliance

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



120 VAC Part Number 80-0026

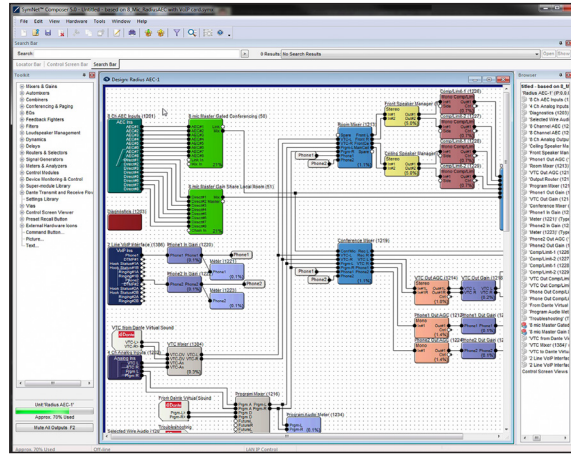
230 VAC Part Number 80-0029



Composer Programs Radius, Edge, Prism, and Solus NX Open-Architecture DSPs and Accessories

Product Highlights

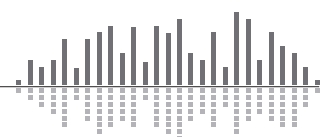
- Complete end-to-end DSP signal path design - including Dante - in a single application.
- A Windows® application - programs from one to many Radius, Edge, Prism, and Solus NX DSPs and accessories.
- Natively configures the setup and routing of Symetrix Dante Analog I/O Expanders as well as select third-party Dante endpoints from vendors including Shure, Audio-Technica, and more.
- Designs precisely match system requirements and adapt and expand as systems evolve.
- The flexibility of open-architecture is limited only by the imagination.
- Classes of general audio processing modules include, but are not limited to, mixers, automixers, matrixes, equalizers, filters, compressor/limiters, automatic gain control (AGC), automatic ambient sound pressure level response (SPL Computer), and feedback eliminators.
- Application specific modules support room combining and audio conferencing.



SymVue High-level Composer-based Authoring of End-User Graphic Interfaces

Product Highlights

- A network-based Windows® runtime application for end user control of Symetrix networked DSPs.
- Produces Control Screens that run on network resident Windows® devices.
- Ultra-fast design, testing, and deployment. No low-level coding required.
- Commonly adjusted parameters from multiple DSPs can be consolidated into a set of easily accessible multi-user screens.
- Secure access to multiple screens with password protection at both administrator and user levels.
- Multiple instances can be deployed across a control network and parameter changes are always in sync between Composer, ARC Wall Panels, ARC-WEB, third-party controllers, and SymVue.



ARC-WEB Virtual User Interface for End User Control of Presets / Volume / Mute / Source

Product Highlights

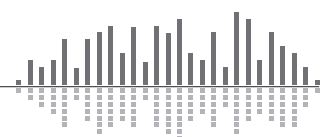
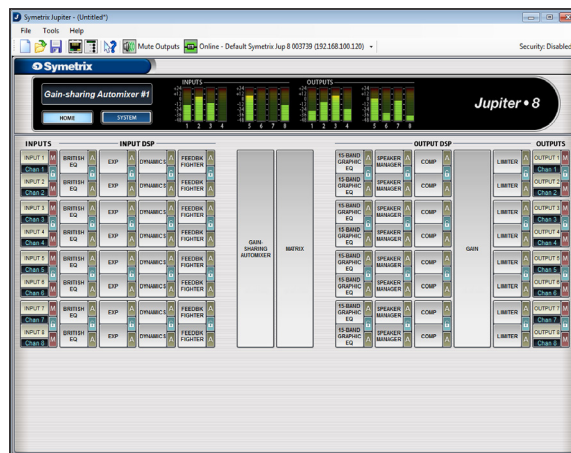
- Virtual control of Symetrix DSPs using phones, tablets, and computers.
- Any popular browser can be used to control presets, volume, mute, and source via Symetrix DSP embedded web servers.
- The four unique instances of ARC-WEB are flexible and secure.
- Each of the four users can be assigned a different ARC-WEB with unique privileges and security.
- Simple Installation- just connect a low cost wireless access point to DSPs - no additional hardware is required.
- Symetrix DSPs supporting ARC-WEB : Radius, Edge, Prism, Solus NX, Jupiter, and Zone Mix 761 .



Jupiter Software Programs Jupiter Hardware | Downloadable Turn-Key Audio Processing | 70+ Apps

Product Highlights

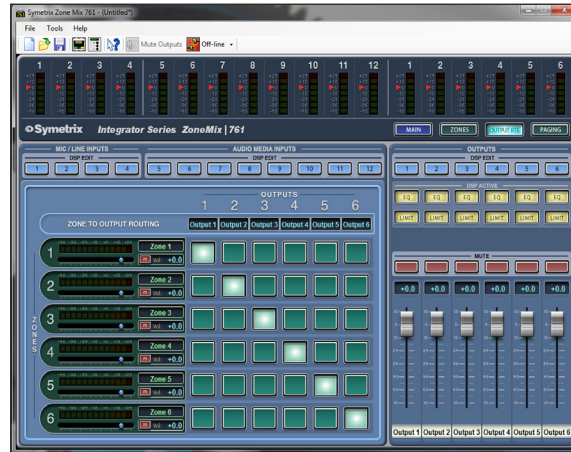
- Turn-key programming for rapid deployment with zero learning curve.
- For use in a variety of venues including schools, athletic complexes, houses of worship, bars and night clubs, and theaters.
- Plenty of processing power for EQ, feedback fighters, FIR filters, multi-dynamics, crossovers, and more.
- A free library of over 70 versatile turn-key apps included with every product.
- Each app's signal flow and DSP modules have been carefully chosen and tested to be the most appropriate for its intended use.
- Apps categories : Mixing and Routing, Public Address and Distribution, Sound Reinforcement, Special Purpose Signal Processing.
- Speaker management apps are built from an extensive palette of filters, EQ, crossovers, delay, and dynamics modules.
- Control options include low-cost ARC Wall Panels, ARC-WEB, and/or 3rd party touch-screens.



Zone Mix 761 Software Programs 761 Hardware | Turn-Key Background Music and Paging

Product Highlights

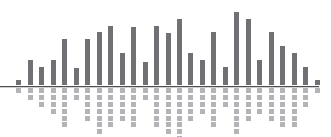
- The graphic user interface presents a hardware-like layout for quick and easy programming and rapid deployment.
- A flexible routing matrix distributes multiple music sources and paging.
- The app supports multi-priority paging plus an emergency source.
- Up to eight audio media input sources can be distributed into six zones.
- A perfect match for night clubs, sports bars, restaurants, hotels, retail establishments, and fitness clubs, among others.
- Sophisticated DSP on all inputs and outputs.
- Comprehensive external control options include ARC Wall Panels, ARC-WEB, and/or third-party touch-screens via RS-232 or UDP/IP.



Voice Processor 2x Software Programs 2X hardware | Programs All Essential Voice Parameters

Product Highlights

- Ultra-fast programming of up to 50 named voice presets.
- Optimization of male and female voices.
- Manual or scheduled time-of-day preset recall.
- An intuitive GUI reflecting actual hardware signal flow makes for quick and easy programming and rapid hardware deployment.
- Detailed control of all important vocal processes: compression, equalization, de-essing, downward expansion, high and low pass filtering, and waveform symmetry.



xIn 4 4 Channel Dante Enabled Analog Audio Input Expander

Product Highlights

- Designed for use with Symetrix Dante-enabled DSPs as a low cost way to increase system analog input (A to D) capacity.
- Composer software setup and control eliminates switches, circuit board jumpers, mechanical adjustments or the need for third-party software.
- 4 analog mic/line inputs with phantom power.
- 4 channel Dante transmit.
- Ultra low latency – no audible delays.

- Top of the line audio specifications.
- 1/2 rack form factor.
- PoE (injector included).
- Optional rack and surface mounting kits sold separately.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0110

230 VAC Part Number 80-0111

xOut 4 4 Channel Dante Enabled Analog Audio Output Expander

Product Highlights

- Designed for use with Symetrix Dante-enabled DSPs as a low cost way to increase system analog output (D to A) capacity.
- Composer software setup and control eliminates switches, circuit board jumpers, mechanical adjustments or the need for third-party software.
- 4 analog outputs.
- 4 channel Dante receive.
- Ultra low latency – no audible delays.
- Top of the line audio specifications.

- 1/2 rack form factor.
- PoE (injector included).
- Optional rack and surface mounting kits sold separately.

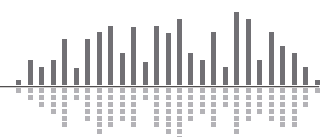
Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0112

230 VAC Part Number 80-0113



xIO 4x4 4 Channel Dante Enabled Analog Audio Input / Output Expander

Product Highlights

- Designed for use with Symetrix Dante-enabled DSPs as a low cost way to increase system analog input (A to D) and output (D to A) capacity.
- Composer software setup and control eliminates switches, circuit board jumpers, mechanical adjustments or the need for third-party software.
- 4 analog mic/line inputs with phantom power.
- 4 analog line outputs.
- 4 channel Dante transmit and receive.
- Ultra low latency – no audible delays.

- Top of the line audio specifications.
- 1/2 rack form factor.
- PoE (injector included).
- Optional rack and surface mounting kits sold separately.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0106

230 VAC Part Number 80-0109

xIn 12 12 Channel Dante Enabled Analog Audio Input Expander

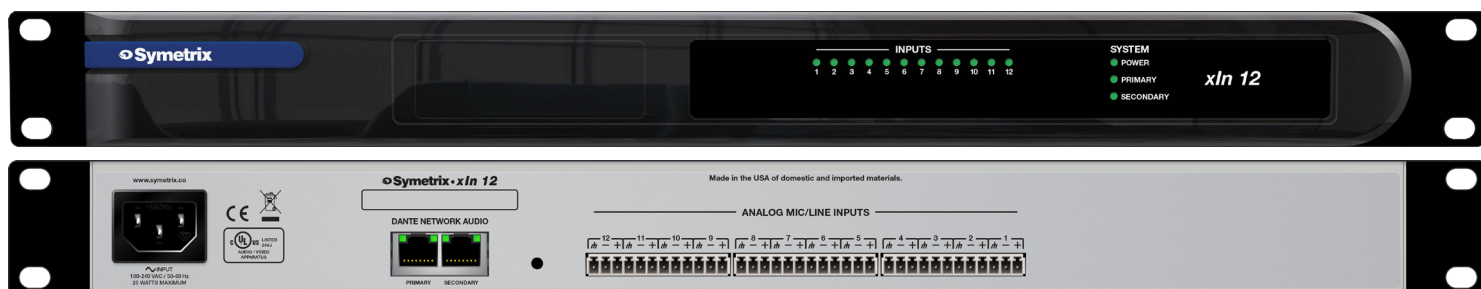
Product Highlights

- Affordable analog audio input (A/D) expander capitalizes on the surplus DSP resources of Radius, Edge, and Prism DSPs to bring overall system costs down.
- 12 channel Dante transmit.
- Dante protocol over standard IT networks with ultra-low latency.
- 12 mic/line inputs, with +48 VDC phantom power and industry leading performance specifications.
- Composer software setup and control eliminates switches, circuit board jumpers, mechanical adjustments, or the need for third-party software.

- Dante (Secondary) gigabit Ethernet port supports redundant Dante network audio implementation or daisy-chaining of up to 10 units with external network switches.
- Internal universal input power supply.

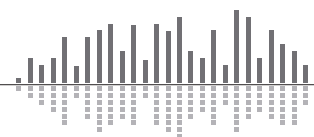
Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0086

230 VAC Part Number 80-0091



xOut 12 Enabled 12 Channel Analog Audio Output Expander

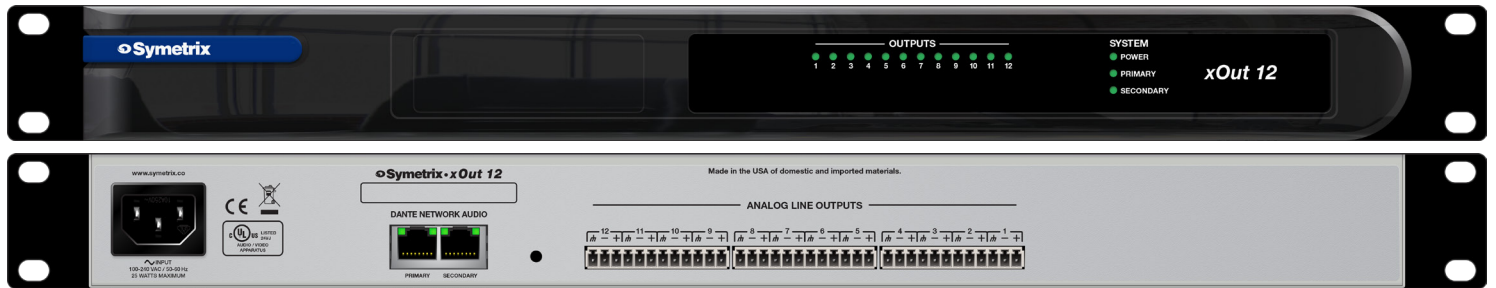
Product Highlights

- Affordable analog audio output (D to A) expander capitalizes on the surplus DSP resources of Radius, Edge, and Prism DSPs to bring overall system costs down.
- 12 channel Dante receive.
- Dante protocol over standard IT networks with ultra-low latency.
- 12 line outputs, with industry leading performance specifications.
- Composer software setup and control eliminates switches, circuit board jumpers, mechanical adjustments, or the need for third-party software.

- Dante (Secondary) gigabit Ethernet port supports redundant Dante network audio implementation or daisy-chaining of up to 10 units with external network switches.
- Internal universal input power supply.

Compliance

- UL 60065, cUL 60065, IEC 60065, EN 55032, EN 55103-2, EN 61000-3-2, EN 61000-3-3, FCC Part 15, ICES-003, RoHS.



120 VAC Part Number 80-0090

230 VAC Part Number 80-0092

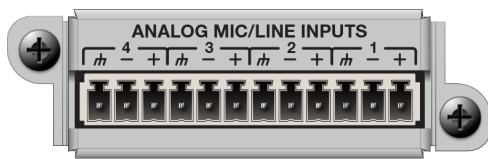
4 Channel Analog Input Card

Product Highlights

- Expands analog input capacity of Radius and Edge DSPs.
- Mic and/or line level inputs.
- +48v phantom power @10mA.
- Signal matching. 5 analog gain settings with +/-24dB of digital trim.
- Extended dynamic range A/D converters. >115 dB.
- 3.81mm terminal blocks, 12 position plugs with strain relief pull tabs.
- Field swappable by qualified technicians.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0062

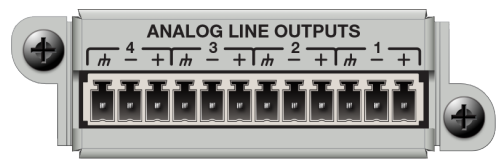
4 Channel Analog Output Card

Product Highlights

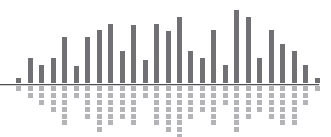
- Expands analog output capacity of Radius and Edge DSPs.
- High output levels for long cable runs, up to +24 dBu.
- Digital trim, +12dB to full off.
- Extended dynamic range D/A converters, >117 dB.
- 3.81mm terminal blocks, 12 position plugs with strain relief pull tabs.
- Field swappable by qualified technicians.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0063



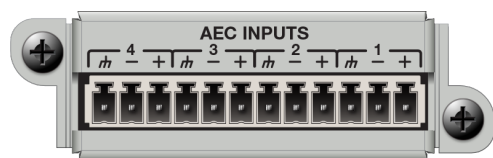
4 Channel AEC Input Card

Product Highlights

- Adds AEC functionality to Radius and Edge DSPs.
- Wideband processing, industry low 11 mS latency, up to 300 mS tail length, and greater than 100 dB/S convergence time.
- Zero-latency direct outputs and discrete reference inputs per AEC channel.
- Processing via the card's mic/line inputs or from internally routed sources.
- Parameter control includes input gain with metering, trim, mute, AEC, noise cancellation, nonlinear processing, and AGC (Automatic Gain Control).
- Field swappable by certified technicians.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0064

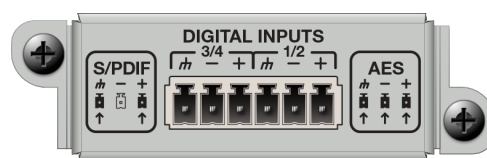
4 Channel Digital Input Card

Product Highlights

- Adds pro or consumer (AES3 or S/PDIF) digital inputs to Radius and Edge DSPs.
- 4 channels (2 stereo pairs).
- Sample rate conversion of 12 to 192 kHz input signal to 48k internal clock.
- +/-24dB trim.
- Parameter control includes metering, trim, mute and signal inversion.
- Field swappable by qualified technicians.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0067

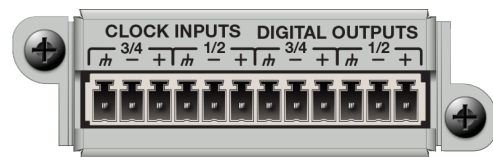
4 Channel Digital Output Card

Product Highlights

- Adds pro or consumer (AES3 or S/PDIF) digital outputs to Radius and Edge DSPs.
- 4 channels (2 stereo pairs).
- Parameter control includes output trim with metering, +/- 12dB to full off.
- Output sample rate defaults to 48kHz or can be externally clocked from 12 to 192kHz.
- Field swappable by certified technicians.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0068

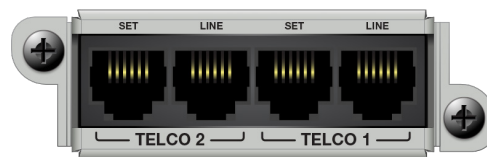
2 Line Analog Telephone Interface Card

Product Highlights

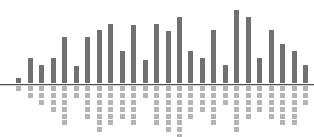
- Adds 2-line PSTN (POTS) functionality to Radius and Edge DSPs.
- Multiple applications – teleconferencing, paging, remote monitoring, and broadcast.
- Functionality includes auto-answer, dial, redial, speed-dial, do not disturb, DTMF decode, caller ID, progress monitoring, line status and faults monitoring and more.
- A variety of control options including PSTN telephones, SymVue and third-party control devices support intuitive end-user operation.
- Standard RJ11 ports with parallel connections per line for a physical handset, dialer, or ADA compliant visual or audible device.
- Qualified for use in North America only.
- Field swappable by qualified technicians.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, FCC Part 68, FCC 47 CFR Part 68, ACTA TIA-968-B, TIA-1096, IC CS-03 Part I, DC-01(E), RoHS.



Part Number 80-0066



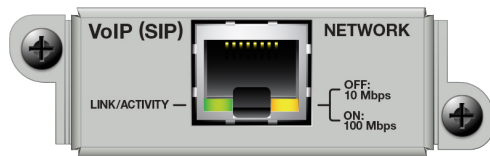
2 Line VoIP Interface Card

Product Highlights

- Adds 2-line VoIP functionality to Radius and Edge DSPs.
- Natively integrates with Cisco, AVAYA, and Asterisk SIP-based call platforms.
- Supports both narrow and wide-band audio codecs.
- Capable of a broad range of telephony functions including dial, hold, resume, transfer, do not disturb, and conference.
- Secure setup access from both AV and VoIP LANs lends support to both IT/VoIP administrators and AV integrators.
- SymVue application builder and extensive third-party support enable rapid development of application specific user interfaces.
- 2 independent SIP registrations enable 2 simultaneous and independent calls per card.
- Field swappable by qualified technicians.

Compliance

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



Part Number 80-0065

ARC-3 Adaptive Remote Control

Product Highlights

- A contemporary capacitive touch interface with LED highlighting provides users with instant operational feedback.
- A white on black OLED display, with 256x64 pixel resolution, is graphics and multi-lingual capable to enhance readability and usability.
- 32 menus, each with up to 32 items, used to control basic audio functions, or complex logic-based events, including volume, preset selection, source selection, room combining, and more.
- PIN code support prevents tampering.
- Universal mounting, in-wall or surface mount, US or EU/UK.
- Compatible with Symetrix open-architecture DSPs: Radius, Edge, Prism, and Solus NX series.
- ARCs are programmed from the same software applications used to configure Symetrix DSP hardware.

- ARCs connect to DSPs via CAT5/6.
- Multiple ARCs are daisy-chained using the dual RJ45 connectors on each ARC.
- ARC control parameters are stored in DSP hardware and can be easily recalled and modified.
- Flexible and modular, ARCs can be mixed and matched to provide any and every acoustic space with optimal multi-user, multi-location control.
- Security feature assures that only qualified users can make adjustments.

Compliance

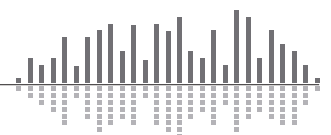
- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



White Part Number 80-0103

Silver Part Number 80-0136

Black Part Number 80-0135



ARC-2e Adaptive Remote Control

Product Highlights

- Affordable management of basic audio functions or complex logic-based events.
- 24 menus each with up to 16 items.
- 3 navigation buttons, 8 character back-lit display, and 31 scrolling characters.
- Programmable brightness.
- Mounts in a single gang North American electrical box, in-wall or surface mount.
- ARCs are programmed from the same software applications used to configure Symetrix DSP hardware.
- ARCs connect to DSPs via CAT5/6.

- Multiple ARCs are daisy-chained using the dual RJ45 connectors on each ARC.
- ARC control parameters are stored in DSP hardware and can be easily recalled and modified.
- Flexible and modular, ARCs can be mixed and matched to provide any and every acoustic space with optimal multi-user, multi-location control.
- A lock feature provides security to protect from adjustments.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0056

ARC-K1e Modular Remote Control

Product Highlights

- A push-button rotary encoder providing simple control of one or two parameters (typically volume), 8-segment LED ladder plus two additional LEDs for indication of currently selected parameter.
- Programmable idle mode option for dimming in light-sensitive environments.
- Single gang Decora® faceplate, mounts in a North American electrical box, in-wall or surface mount.
- ARCs are programmed from the same software applications used to configure Symetrix DSP hardware.
- ARCs connect to DSPs via CAT5/6.

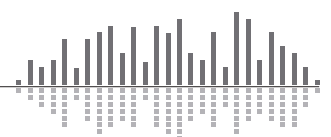
- Multiple ARCs are daisy-chained using the dual RJ45 connectors on each ARC.
- ARC control parameters are stored in DSP hardware and can be easily recalled and modified.
- Flexible and modular, ARCs can be mixed and matched to provide any and every acoustic space with optimal multi-user, multi-location control.
- Security features assure that only qualified users can make adjustments.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0078



ARC-SW4e Modular Remote Control

Product Highlights

- Provides simple control of mute, source selection and presets, or more complex logic-based events.
- Four switches are programmable as momentary, latched, or radio buttons with corresponding LEDs providing user feedback.
- Programmable idle mode for dimming in light-sensitive environments.
- Single gang Decora® faceplate, mounts in a North American electrical box, in-wall or surface mount.
- ARCs are programmed from the same software applications used to configure Symetrix DSP hardware.
- ARCs connect to DSPs via CAT5/6.

- Multiple ARCs are daisy-chained using the dual RJ45 connectors on each ARC.
- ARC control parameters are stored in DSP hardware and can be easily recalled and modified.
- Flexible and modular, ARCs can be mixed and matched to provide any and every acoustic space with optimal multi-user, multi-location control.
- Security features assure that only qualified users can make adjustments.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0079

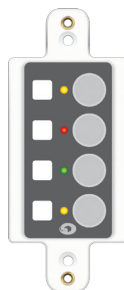
ARC-EX4e Modular Remote Control Expander

Product Highlights

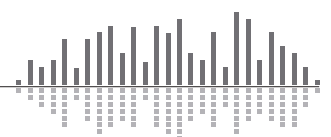
- Identical in function to ARC-SW4e, ARC-EX4e provides a low cost means to expand the capabilities of either an ARC-SW4e or ARC-K1e.
- A maximum of 4 ARC-EX4e's may be added to an ARC-K1e.
- A maximum of 3 ARC-EX4e's may be added to an ARC-SW4e.
- Accommodates single gang Decora® faceplates (not included), mounts in a North American electrical box, in-wall or surface mount.
- The ARC-EX4e cannot be used standalone nor can it be combined with an ARC-2e or ARC-3.

Compliance

- EN 55103-1, EN 55103-2, FCC Part 15, RoHS.



Part Number 80-0080



RC-3 Remote Volume Control

Product Highlights

- A basic analog remote control for a simple and cost-effective single point of control applications.
- Interfaces with Symetrix DSP external control inputs to provide volume control and source or preset selection with minimal programming.
- The RC-3 is compatible with remote volume ports accepting standard linear potentiometers.

- Single gang Decora® faceplate, mounts in a North American electrical box, in-wall or surface mount.

Compliance

- UL 60065, cUL 60065, IEC 60065, RoHS.



Part Number | 80-0RC3

ARC-PSe ARC Wall Panels Power Supply

Product Highlights

- Distributes power and data over long distances to multiple ARC Wall Panels via eight RJ-45 connectors.
- Versatile half-rack design for mounting in optional 1U rack tray or surface mount with optional bracket.
- Compatibility with off-the-shelf CAT5/6 cable and RJ-45 connectors reduces installation time and materials costs.
- ARC Power Calculator spreadsheet helps determine maximum ARC quantities and RS-485 distances between wall panels.

- Intended for systems with more than 4 ARCs or for use in cases when ARCs are located a long distance from DSP hardware.
- Connects directly to Symetrix DSPs using standard CAT5/6 cables.
- Intended for use in flexible 'star' configurations, 'daisy-chains', or a hybrid of the two.

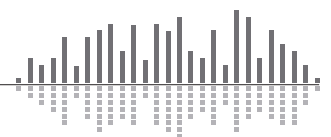
Compliance

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



120 VAC Part Number | 80-0093

230 VAC Part Number | 80-0097



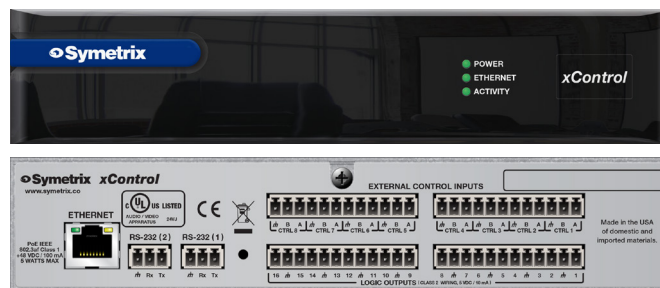
xControl External Control Expander

Product Highlights

- Each of the 8 flexible analog control inputs may be configured for 1 potentiometer or 2 switches.
- The 16 logic outputs may be used to drive LEDs, external relays, or control contact closure ports.
- Either of the 2 RS-232 ports may be configured to receive commands from, or issue commands to, third-party control systems.
- Applications include adding push-to-talk capability and LED activity indication in conferencing and paging applications and RS-232 projector, camera, and lighting control.
- Multiple xControls may be combined.
- Straight forward set-up and management using Composer open-architecture software.
- Versatile half-rack design for mounting in optional 1U rack tray or surface mount with optional bracket.
- PoE (injector included).

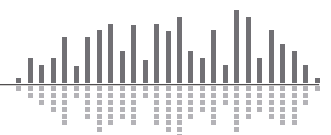
Compliance

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



120 VAC Part Number | 80-0089

230 VAC Part Number | 80-0096



1/2 U Filler Panel

Product Highlights

- Used with 19" 1U Rack Tray to fill an unused 1/2 rack space.

Compatible Products

- Prism 0x0, Prism 4x4
- xIn 4, xOut 4, xIO 4x4
- xControl, ARC-PSe

Compliance

- RoHS



Part Number 80-0123

1/2 U Surface Mount Bracket

Product Highlights

- Bracket for mounting a single half rack unit under table, onto wall, or onto other flat surfaces.

Compatible Products

- Prism 0x0, Prism 4x4
- xIn 4, xOut 4, xIO 4x4
- xControl, ARC-PSe

Compliance

- RoHS



Part Number 80-0108

1 U Rack Tray

Product Highlights

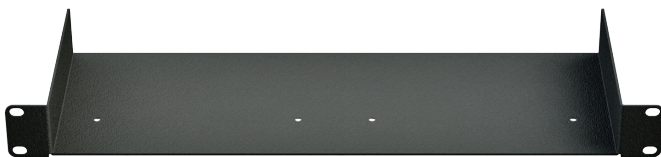
- 19 inch rack tray for mounting up to two half rack units in a 1 U rack space.

Compatible Products

- Prism 0x0, Prism 4x4
- xIn 4, xOut 4, xIO 4x4
- xControl, ARC-PSe
- 1/2 U Filler Panel

Compliance

- RoHS



Part Number 80-0107

RCA to Euroblock Cable

Product Highlights

- Three foot cable has two male RCA connectors on one end, two 3.81 mm Euroblock connectors on the other.
- Allows easy interconnect between industry standard RCA jacks and 3.81 mm Euroblock type connectors.

Compatible Products

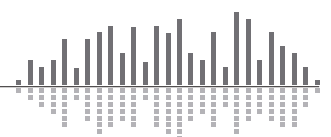
- Compatible with all Symetrix DSPs and audio accessories fitted with 3.81 mm Euroblock I/O connections.

Compliance

- RoHS



Part Number 40-0023



3.5 mm TRS Mini to Euroblock Cable

Product Highlights

- Three foot cable has a 3.5 mm TRS mini male connector on one end, two 3.81 mm Euroblock connectors on the other.
- Allows easy interconnect between industry standard 3.5 mm TRS mini jacks and 3.81 mm Euroblock type connectors.

Compatible Products

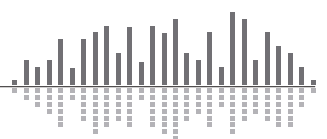
- Compatible with all Symetrix DSPs and audio accessories fitted with 3.81 mm Euroblock I/O connections.

Compliance

- RoHS



Part Number 40-0025



Symetrix Full Line Catalog – 2017 v1.0

© 2017 Symetrix, Inc. All rights reserved. Mention of third-party products is for informational purposes only and constitutes neither an endorsement nor a recommendation. The following are Trademarks or Registered Trademarks of Symetrix, Inc.: Symetrix, Composer, SymLink, Edge, Radius, Prism, Jupiter, xIn 4, xIO 4x4, xOut 4, xIn 12, xOut 12, xControl, and ARC. Windows is a Registered Trademark of Microsoft, Inc. Decora is a Registered Trademark of Leviton. Dante is a trademark of Audinate Pty Ltd. Other product names mentioned herein may be trademarks and/or registered trademarks of their respective owners.

