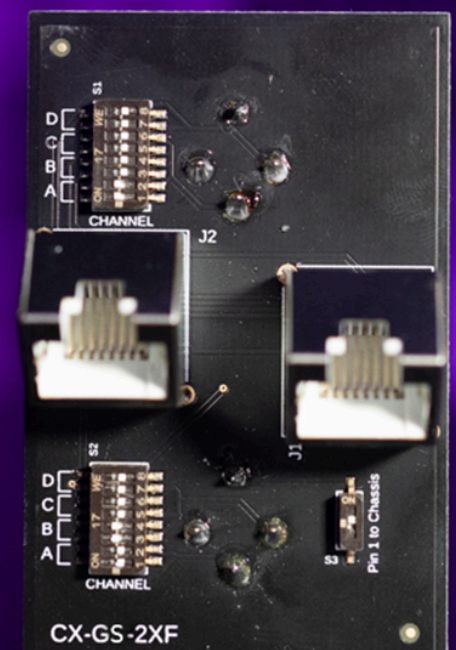




BUILD FASTER CONNECTIONS



Catalyst is the solution that lets systems integrators rapidly install high-quality, dependable audio and lighting control cabling using standard structured wiring systems. Instead of specialty AV cables, Catalyst exploits shielded category cabling for analog audio and digital connections, allowing rapid installation, termination and testing. On top of the labor savings, Catalyst exceeds the bandwidth performance of standard audio cabling systems.

SPEED UP YOUR WORKFLOW

Catalyst modules connect using shielded category cable. Now you can connect your entire building with one type of cable, rapidly installing audio, video and lighting control cabling using structured wiring systems.

WIDER BANDWIDTH PERFORMANCE

Long distance runs and studio-grade connections are possible with a fraction of the conduit fill and difficulty of conventional methods. Grounding, shielding and electrical isolation have been carefully engineered to make quiet, high-performance systems possible with minimal effort.

MODULAR TERMINATION

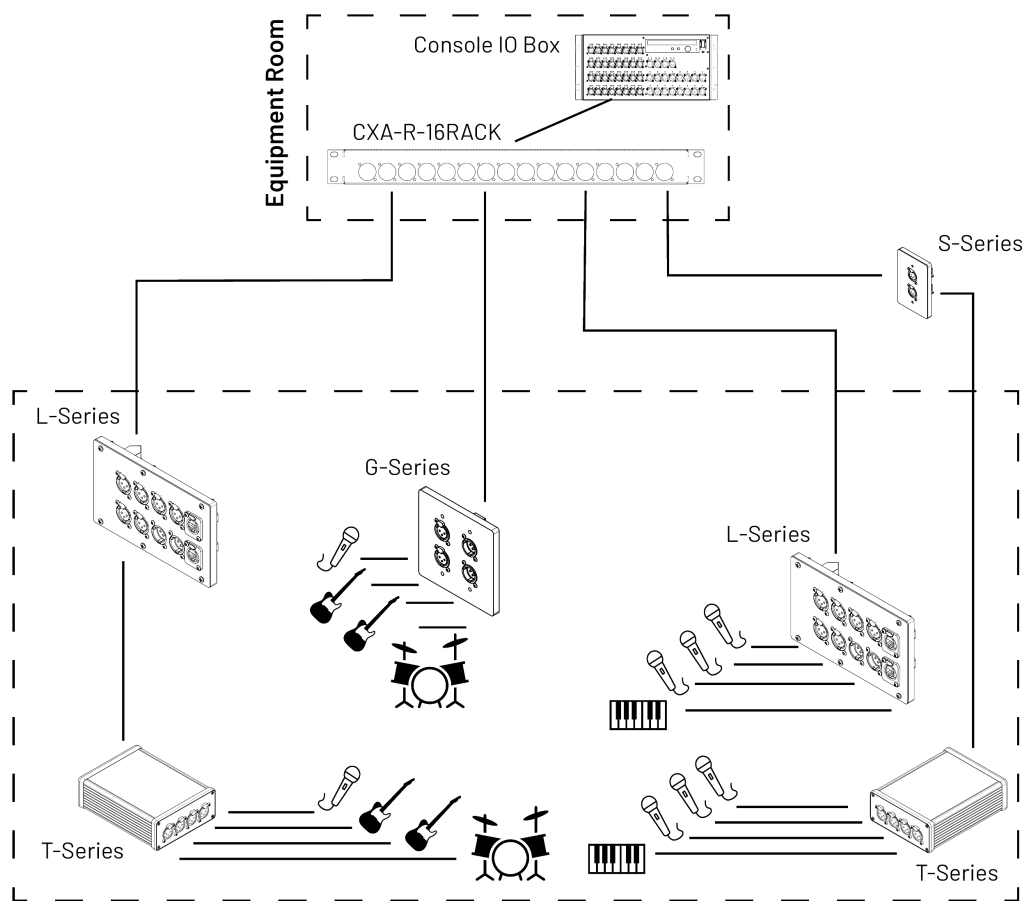
Cabling for the audio system can be installed with other network wiring in the building, so you don't require an audio specialist to install it. Using standard modular connectors, we've eliminated the need for soldering in the field.

CUSTOMIZE YOUR SOLUTION

Our ability to customize rack panels, wall plates and floor boxes provides integrators with greater flexibility and ease-of-installation.

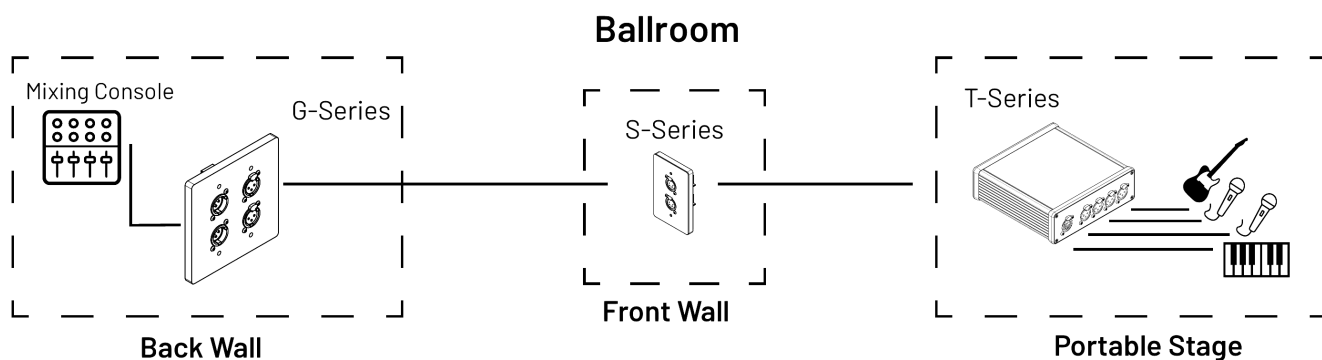
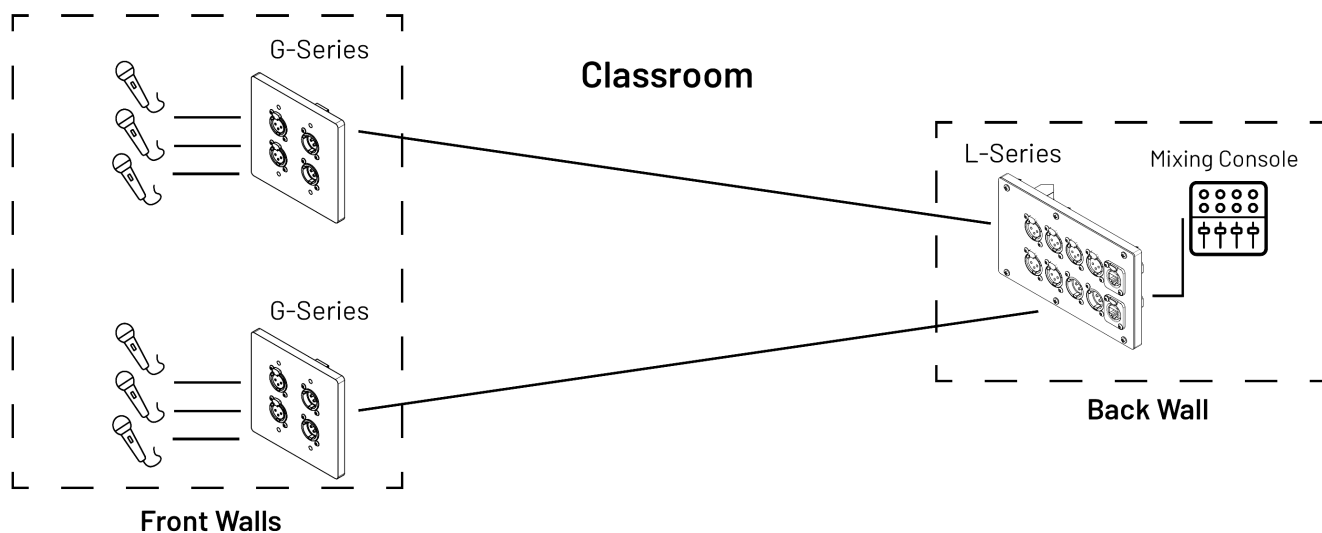
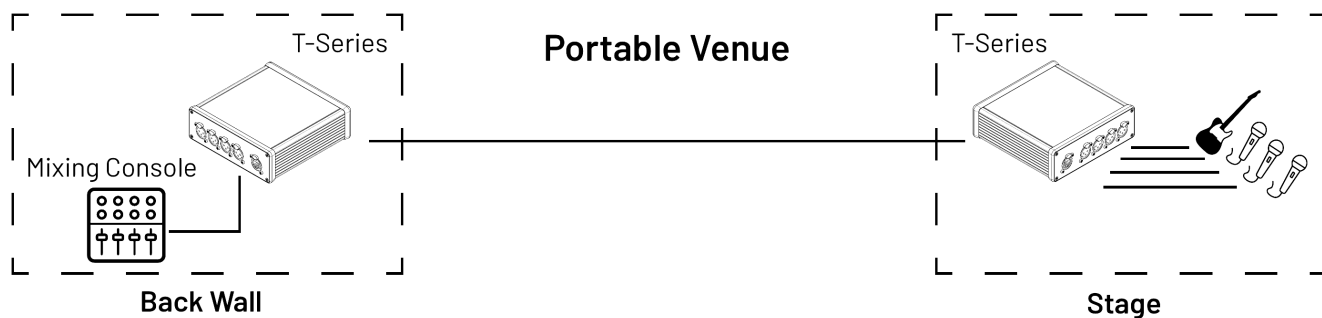


Below is an example application of the Catalyst system in a room with a stage and several audio components. Modules are used to accomplish whatever needs may arise, while offering plenty of options for floor or wall mount installation. Your ability to customize rack panels, wall plates and floor boxes provides greater flexibility and ease-of-installation.



AUDIO	Wiring topology	AES 72-2019 Type 1M
	Maximum cable distance	Analog or AES3-2009 digital audio to 400 m (1300 ft)
LIGHTING	Wiring topology	ANSI E1.11 – 2008 (R2018)
	Maximum cable distance	DMX512 data to 300 m (1000 ft)
CABLING	Cabling type	ISO/IEC 11801 Category 5 or 6 Shielded
	Connector type	Shielded IEC 60603-7-1 8-position modular connectors (Shielded RJ45)

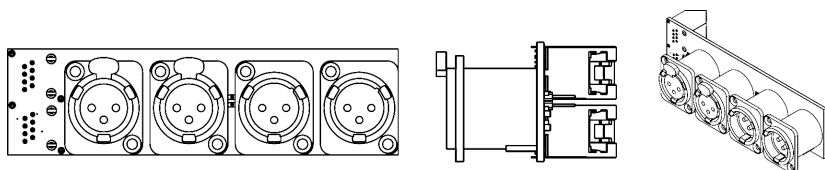
Portable venue, classroom and ballroom layouts — three common ways the same module families combine to move audio between a mixing position and the stage.



The Catalyst L-Series is intended for use in floor- and wall-box applications. Plate layouts are available for use with back boxes from Ace Backstage, FSR and Hoffman. Combine L-Series modules with S-Series modules or other D-mount connectors for a complete plate and box design. The L-Series audio modules feature a pass-through for parallel connection to front-panel drop snake connections or to other modules in the system.

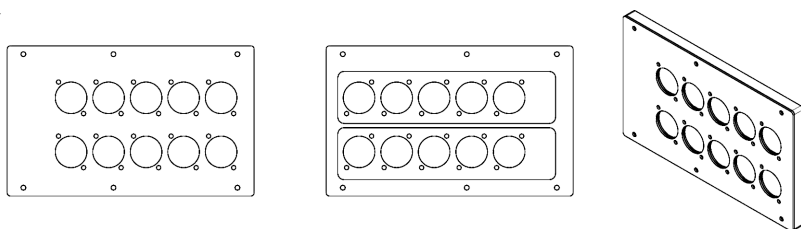
L-Module:

Four D-mount connectors across; RJ45 in and thru on back panel; M3 threaded hole mounts. Includes M3 screws.



L-Plate:

Non-conductive thermoplastic plates to mount Neutrik D or Catalyst modules. Custom laser etching available.

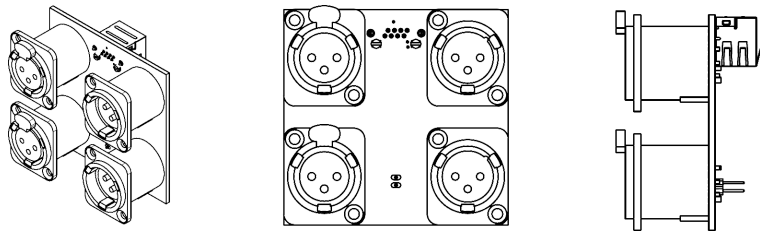


Model	Description	Drawing
CX-L-4XF	L-Series module — four female 3 pin XLR.	
CX-L-4XM	L-Series module — four male 3 pin XLR.	
CX-L-2XF-2XM	L-Series module — two female 3 pin XLR plus two male 3 pin XLR.	
CXA-L-10ACE	L-Series Ace Backstage non-conductive thermoplastic plate with laserable surface for Ace Backstage Super Pocket; 10 D-mount holes for Neutrik D or Catalyst modules. Holds up to two L-Series modules plus two additional D-mount connectors.	
CXA-L-10FSR	L-Series 4 gang FSR mount non-conductive thermoplastic plate with laserable surface for FSR floor and wall boxes; 10 D-mount holes for Neutrik D or Catalyst modules. Holds up to two L-Series modules plus two additional D-mount connectors.	
CXA-L-48-1212	L-Series non-conductive thermoplastic plate for 12in x 12in Hoffman Box, overall size 12in x 12in for surface mount box; up to 6 L modules with a total of 48 D-mount connectors.	
CXA-L-48-1313	L-Series non-conductive thermoplastic plate for 12in x 12in Hoffman Box, overall size 13in x 13in for flush wall trim; up to 6 L modules with a total of 48 D-mount connectors.	
Catalyst-Plate-Etching	Custom laser etching of thermoplastic plates from customer-supplied art. Must utilize Catalyst templates and provide original files. Per plate.	[Your Logo]

The Catalyst G-Series is intended for use in standard NEMA gang boxes, and other NEMA-sized specialty boxes such as those from FSR. G-Series modules are numbered top to bottom, not left to right like the rest of the modules – input 1 is top left, input 2 is bottom left.

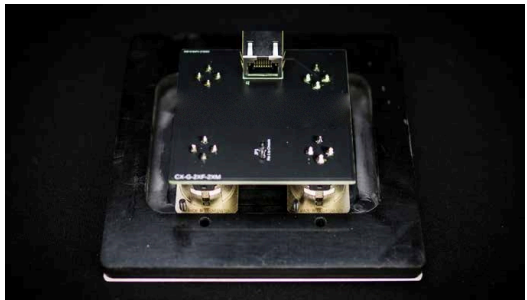
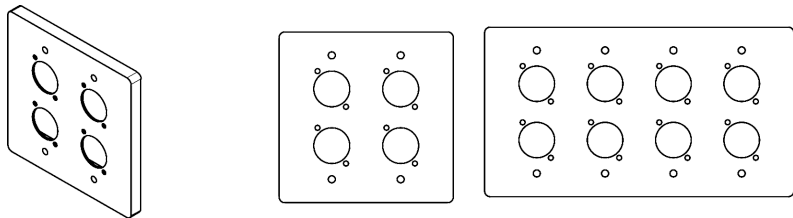
G-Module:

Four D-mount connectors in a 2x2 grid; RJ45 input on back panel; M3 threaded hole mounts. Includes M3 screws.



G-Plate:

Non-conductive thermoplastic plates to mount Neutrik D or Catalyst modules. Custom laser etching available.

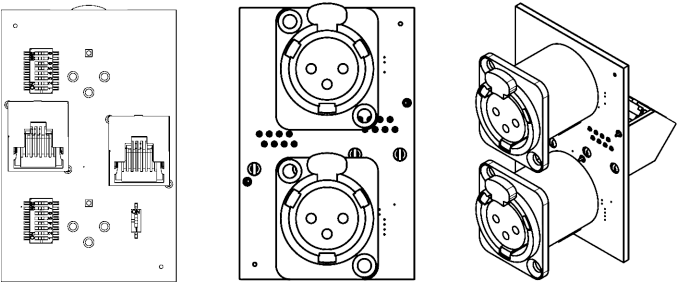


Model	Description	Drawing
CX-G-4XF	G-Series module – four female 3 pin XLR.	
CX-G-4XM	G-Series module – four male 3 pin XLR.	
CX-G-2XF-2XM	G-Series module – two female 3 pin XLR plus two male 3 pin XLR.	
CXA-G-4WALL	G-Series 2 gang wall mount non-conductive thermoplastic plate with laserable surface; 4 D-mount holes for Neutrik D or one Catalyst G module.	
CXA-G-4FSR	G-Series 2 gang FSR mount non-conductive thermoplastic plate with laserable surface; 4 D-mount holes for Neutrik D or one Catalyst G module.	
CXA-G-8FSR	G-Series 4 gang FSR mount non-conductive thermoplastic plate with laserable surface; 8 D-mount holes for Neutrik D or two Catalyst G modules.	
Catalyst-Plate-Etching	Custom laser etching of thermoplastic plates from customer-supplied art. Must utilize Catalyst templates and provide original files. Per plate.	[Your Logo]

The Catalyst GS-Series is intended for use in standard NEMA gang boxes, and other NEMA-sized specialty boxes such as those from FSR. Each terminating connector may be individually assigned to a Catalyst audio channel at will using a simple DIP switch, allowing fully-custom channel and connector arrangements.

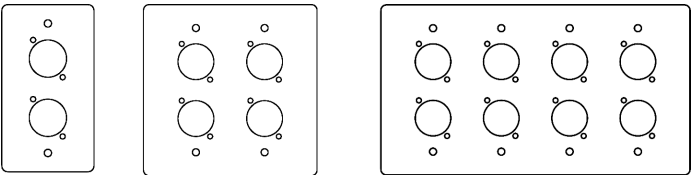
GS-Module:

Two D-mount connectors with DIP-switch channel assignment, RJ45 input and through on back panel; M3 threaded hole mounts. Includes M3 screws. May be fitted into G-Series Plates or S-Series Plates.



GS-Plate:

The GS-Module fits into both G-Series and S-Series non-conductive thermoplastic plates to mount Neutrik D or Catalyst modules (only two plate examples shown for reference). Custom laser etching available.

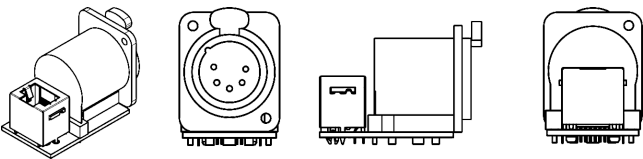


Model	Description	Drawing
CX-GS-4XF	GS-Series module – two female 3 pin XLR.	
CX-GS-4XM	GS-Series module – two male 3 pin XLR.	
CX-GS-1XF-1XM	GS-Series module – one female 3 pin XLR plus one male 3 pin XLR.	
CXA-G-4WALL	G-Series 2 gang wall mount non-conductive thermoplastic plate with laserable surface; 4 D-mount holes for Neutrik D or one Catalyst G module.	
CXA-S-2WALL	S-Series single-gang non-conductive thermoplastic plate with laserable surface sized for drywall trim; 2 D-mount holes for Neutrik D or Catalyst modules. Holds up to two S-Series modules or two D-mount connectors.	
Catalyst-Plate-Etching	Custom laser etching of thermoplastic plates from customer-supplied art. Must utilize Catalyst templates and provide original files. Per plate.	[Your Logo]

The Catalyst S-Series complements our L- and G-Series plate systems to provide additional connectivity beyond audio pairs. Single RJ45 modules can provide multipair pass-through for any audio pairs, either looping from L-Series modules or additional remote lines, four pairs at a time. In addition, include ANSI standard DMX512 connections over the same category cabling.

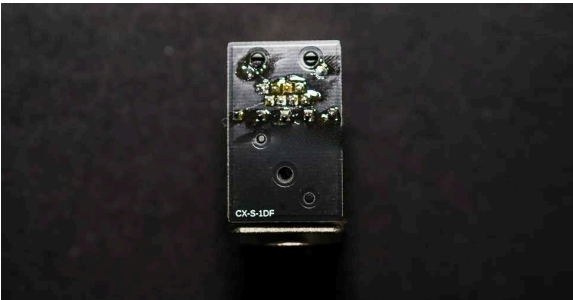
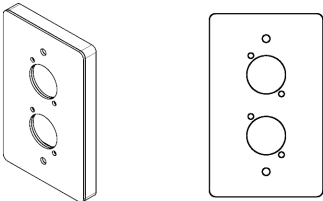
S-Module:

One D-mount connector; M3 threaded hole mounts. Includes M3 screws.



S-Plate:

Non-conductive thermoplastic plates to mount Neutrik D or Catalyst modules. Custom laser etching available.

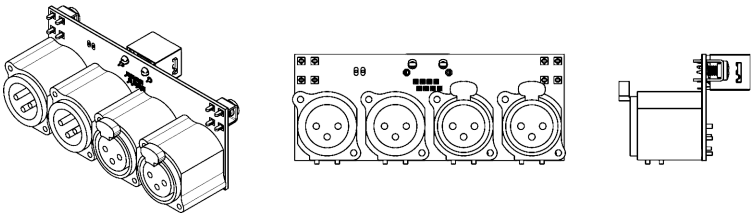


Model	Description	Drawing
CX-S-1DF	S-Series module — single female 5 pin XLR, ANSI DMX512 standard wiring to RJ45 on back panel.	
CX-S-1E	S-Series module — single female CAT6A Ethercon including shielded link cable for drop snake connection with L-Series modules.	
CXA-S-BLANK	D-mount blank, includes M3 screws.	
CXA-S-2WALL	S-Series single-gang non-conductive thermoplastic plate with laserable surface sized for drywall trim; 2 D-mount holes for Neutrik D or Catalyst modules. Holds up to two S-Series modules or two D-mount connectors.	
CXA-S-2ACE	S-Series single-gang non-conductive thermoplastic plate with laserable surface sized for Ace Backstage pockets; 2 D-mount holes for Neutrik D or Catalyst modules. Holds up to two S-Series modules or two D-mount connectors.	
CXA-S-2FSR	S-Series single-gang non-conductive thermoplastic plate with laserable surface sized for FSR pockets and wall boxes; 2 D-mount holes for Neutrik D or Catalyst modules. Holds up to two S-Series modules or two D-mount connectors.	
Catalyst-Plate-Etching	Custom laser etching of thermoplastic plates from customer-supplied art. Must utilize Catalyst templates and provide original files. Per plate.	[Your Logo]

The R-Series forms the core of a typical Catalyst system, allowing home runs from remote IO plates to be centrally terminated and patched in an equipment rack. Each remote plate can connect to a complementary rack module, which may then be patched with standard XLR patch cables into local equipment.

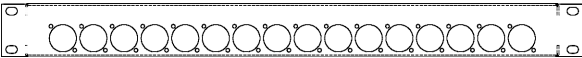
R-Module:

Four A-mount connectors across; RJ45 input on back panel; includes Plastite screws for mounting to rack panel.



R-Rack:

R-Series 1RU rack panel with laserable surface; 16 A-mount holes for up to four Catalyst R modules.

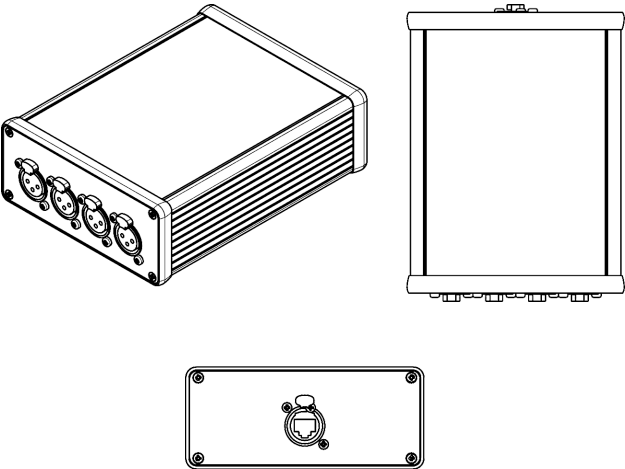


Model	Description	Drawing
CX-R-4XF	R-Series module — four female 3 pin XLR.	
CX-R-4XM	R-Series module — four male 3 pin XLR.	
CX-R-2XM-2XF	R-Series module — two male 3 pin XLR plus two female 3 pin XLR.	
CXA-R-BLANK	A-mount blank, includes M3 screws.	
CXA-R-16RACK	R-Series 1RU rack panel with laserable surface; 16 A-mount holes for up to four Catalyst R-Series modules.	

T-Series stage breakout boxes allow for remote IO to be connected throughout a stage, using a single shielded category cable for each set of four audio pairs. Use the CX-T-4XF and -8XF models to extend microphone inputs to areas like drum or keyboard risers. The CX-T-4XFM can be used to extend output lines, or can be used in standalone pairs to move audio around in portable applications.

T-Module:

Tour style drop snake stage box components.



Model	Description	Drawing
CX-T-4XF	T-Series stage drop snake – one ethercon to four female 3 pin XLR.	
CX-T-8XF	T-Series stage drop snake – two ethercon to eight female 3 pin XLR.	
CX-T-4XFM	T-Series stage drop snake – two ethercon to four female 3 pin XLR and four male 3 pin XLR. Paralleled connections throughout (four total audio pairs).	

Catalyst modules are ordered separately from the plates, rack panels and boxes they mount into.

L-SERIES – FLOOR AND WALL BOXES

CX-L-4XF	L-Series module – four female 3 pin XLR
CX-L-4XM	L-Series module – four male 3 pin XLR
CX-L-2XF-2XM	L-Series module – two female plus two male 3 pin XLR
CXA-L-10ACE	Plate for Ace Backstage Super Pocket – 10 D-mount holes
CXA-L-10FSR	4 gang plate for FSR floor and wall boxes – 10 D-mount holes
CXA-L-48-1212	Plate for 12in x 12in Hoffman box, 12in x 12in overall – surface mount, up to 48 D-mount
CXA-L-48-1313	Plate for 12in x 12in Hoffman box, 13in x 13in overall – flush trim, up to 48 D-mount
CXA-L-35-WFF1212	Plate for 12in x 12in Hoffman box with Whirlwind WFF12 wall frame, 10.5in x 10.5in overall – up to 35 D-mount

G-SERIES – NEMA GANG BOXES

CX-G-4XF	G-Series module – four female 3 pin XLR
CX-G-4XM	G-Series module – four male 3 pin XLR
CX-G-2XF-2XM	G-Series module – two female plus two male 3 pin XLR
CXA-G-4ACE	2 gang Ace Backstage mount plate – 4 D-mount holes, or one Catalyst G module
CXA-G-4WALL	2 gang wall mount plate – 4 D-mount holes, or one Catalyst G module
CXA-G-4FSR	2 gang FSR mount plate – 4 D-mount holes, or one Catalyst G module
CXA-G-8FSR	4 gang FSR mount plate – 8 D-mount holes, or two Catalyst G modules

GS-SERIES – DIP-SWITCH CHANNEL ASSIGNMENT

CX-GS-4XF	GS-Series module – two female 3 pin XLR
CX-GS-4XM	GS-Series module – two male 3 pin XLR
CX-GS-1XF-1XM	GS-Series module – one female plus one male 3 pin XLR

S-SERIES – SINGLE CONNECTOR

CX-S-1DF	S-Series module – single female 5 pin XLR, DMX512 to RJ45 on back panel
CX-S-1E	S-Series module – single ethercon feed-thru
CXA-S-BLANK	S-Series D-mount blank
CXA-S-2WALL	Single-gang wall plate – 2 D-mount holes
CXA-S-2ACE	Ace Backstage pocket plate – 2 D-mount holes
CXA-S-2FSR	FSR floor and wall box plate – 2 D-mount holes

R-SERIES – RACK

CX-R-4XF	R-Series module – four female 3 pin XLR
CX-R-4XM	R-Series module – four male 3 pin XLR
CX-R-2XM-2XF	R-Series module – two male plus two female 3 pin XLR
CX-R-4EU	R-Series module – four rear-mounted phoenix connectors (Euroblock). Includes four phoenix cable-mount connectors with strain relief.
CX-R-DB25	R-Series module – two RJ45 to one rear-mounted DB25 female. Eight audio pairs, AES59 (Tascam) wiring standard.
CXA-R-BLANK	A-mount blank, includes M3 screws
CXA-R-16RACK	1RU rack panel with laserable surface – 16 A-mount holes, up to four R modules

T-SERIES – STAGE DROP SNAKE BOXES

CX-T-4XF	One ethercon to four female 3 pin XLR
CX-T-8XF	Two ethercon to eight female 3 pin XLR
CX-T-4XFM	Two ethercon to four female plus four male 3 pin XLR – four paralleled audio pairs

CXN-D – D-MOUNT CONNECTORS

CXN-D-XF	XLR Connectors 3P F solder black/silver duplex GRD contact with back plate and 2 mounting screws.
CXN-D-XM	XLR Connectors 3P M solder black/silver duplex GRD contact with back plate and 2 mounting screws.
CXN-D-DF	XLR Connectors Recpt DLX 5 pin F solder black/silver with back plate and 2 mounting screws.
CXN-D-DM	XLR Connectors Recpt DLX 5 pin M solder black/silver with back plate and 2 mounting screws.
CXN-D-E	Modular connectors / ethernet connectors RECP CAT6A D series SHD feedthrough with back plate and 2 mounting screws.
CXN-D-E5	Modular connectors / ethernet connectors feed-thru RCPT D-sized metal flange.
CXN-D-B	RF connectors / coaxial connectors BNC 75 OHM feedthrough ISO d-shaped housing.
CXN-D-S	Loudspeaker Connectors 4C male screw term with back plate and 2 mounting screws.
CXN-D-H	HDMI, DisplayPort & DVI Connectors HDMI 1.4 feedthrough adapter black HSG with two screws and back plate.
CXN-D-FLC	EHLC2 Duplex Singlemode LC fiber optic chassis mount feedthrough black with two screws and back plate.
CXN-D-FST	Complex FOA-ST-ST-SS ST fiber adapter simplex / single mode with zirconia sleeve & metal thread.

ETCHING

Catalyst-Plate-Etching	Laser etching of plates from customer-supplied art – Catalyst templates required. Per plate.
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