

An Adaptable Multi-Channel Audio Ecosystem

Movies and games have long delivered multi-channel audio, and now platforms like Apple Music, Tidal, QQ, Qobuz, and YouTube are following suit with support for Dolby Atmos, DTS, and multi-channel PCM formats. Modern homes blend stereo systems, streamers, gaming consoles, and home theaters — all providing multi-channel audio through USB and HDMI.

The NuPrime Fusion-X platform unites these worlds in one modular, flexible, and scalable ecosystem — redefining how you experience music and movies.



Mac Mini



Windows PC



Music Server

USB audio delivering multi-channel PCM



PS5, TV, Set-Top-Box, Apple TV, etc



HDMI Outputs: Dolby & DTS



**5.1 to 9.1.6
Channels**



Movies
Games
Stereo &
Immersive
Music

PS5, TV, Set-Top-Box,
Apple TV, etc

Decodes Dolby and DTS HDMI signals to 16-channel digital outputs.



H16-AES - A full-featured **AV Processor** with room acoustic calibration and **16-Channel AES outputs**.

- HDMI 2.0 with HDCP 2.2., 3D and 4K HD video
- Dolby Atmos (up to 7.1.4), Dolby True HD, DTS:X, DTS-HD
- HDMI eARC

Speaker Layouts

The H16 speaker setup is similar to a Dolby Atmos multi-channel system.

Output Channel	Speaker Layout						
	5.1	7.1	5.1.2	5.1.4	7.1.2	7.1.4	
1	L	L	L	L	L	L	
2	R	R	R	R	R	R	
3	C	C	C	C	C	C	
4	LFE	LFE	LFE	LFE	LFE	LFE	
5	Ls	Ls	Ls	Ls	Ls	Ls	
6	Rs	Rs	Rs	Rs	Rs	Rs	
7		Lrs	Ltm	Ltf	Lrs	Lrs	
8		Rrs	Rtm	Rtf	Rrs	Rrs	
9				Ltr	Ltm	Ltf	
10				Rtr	Rtm	Rtf	
11						Ltr	
12						Rtr	
13							
14							
15							
16							

H16-ANA

A full-featured **AV Processor** with room acoustic calibration and 16 channels XLR outputs.



2 X DB25 to XLR Cables for
Channels 1-8 & Channels 9 to 16

Future-Proof & Expandable Ecosystem

Modular Design with Flexible Connectivity and Scalable Growth



MCX-800AD - 8-channel DACs+Amps

- Multi-channel DAC architecture using four clock-sync stereo DACs
- Peak Power: 8 x 280W@4ohm, 170W@8ohm; RMS Power: 8 x 220W@4ohm, 120W@8ohm



Fusion 8D - 8-channel DACs

- Multi-channel DAC architecture using four clock-sync high end stereo DACs
- 8-Channel USB Audio, 8-Channel XLR, and five expansion slots for AES, AoIP and XLR I/Os



Expandable plug-in modules for multi-channel digital and analog inputs and outputs.



Fusion 3X & 4X (3 & 4-Channel Amps)

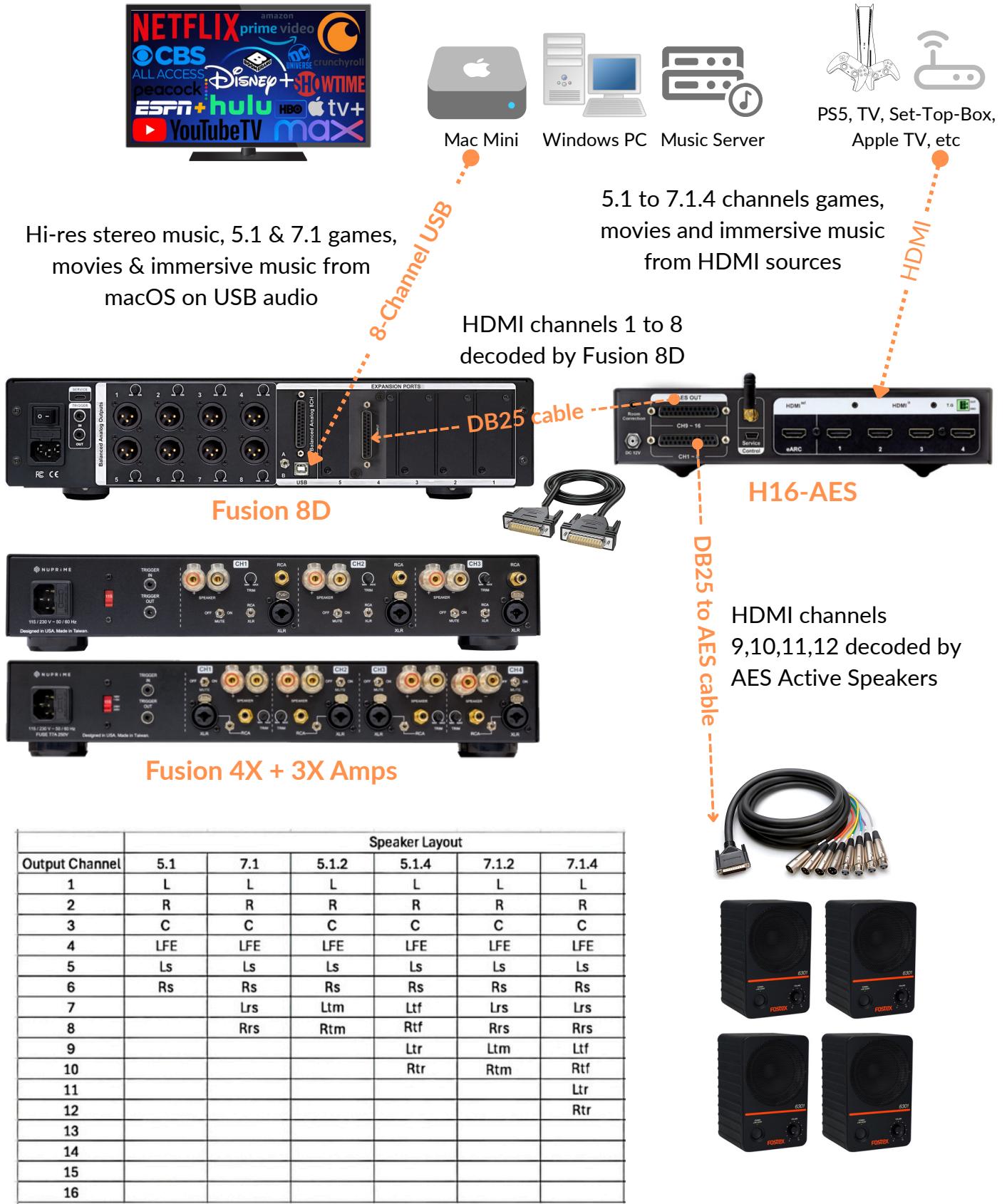
- Power Output (RMS rated) @ 4Ω: 310 W per channel
- Power Output (RMS rated) @ 8Ω: 160 W per channel
- THD + N: 0.007@5W 1K Hz, 0.012@50W 1K Hz, 0.02@100W 1K Hz
- Frequency Response: 10Hz ~ 50K Hz
- Signal to Noise Ratio: 100 dB @ 10W, 110 dB @ 100W



MCX-800MZ

- Peak Power: 8 x 280W@4Ω, 170W@8Ω.
- RMS power: 8 x 220W@4Ω, 120W@8Ω.
- Multizone: Bus A, Bus B, and Line In.

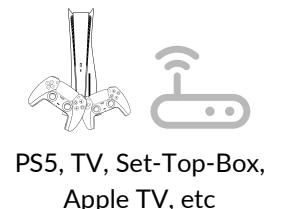
Use Case1: A High-End Stereo and Home Theater System with USB Audio and HDMI Sources



Use Case2: A Mid-Level Stereo and Home Theater System with USB Audio and HDMI Sources using all passive speakers



Hi-res stereo music, 5.1 & 7.1 games, movies & immersive music from macOS on USB audio



5.1 to 7.1.4 channels games, movies and immersive music from HDMI sources



MCX-800AD

Mac Mini

Windows PC

Music Server

Channels 1 to 8



H16-AES



MCX-800AD

Channels
9,10,11,12

DB25 cable



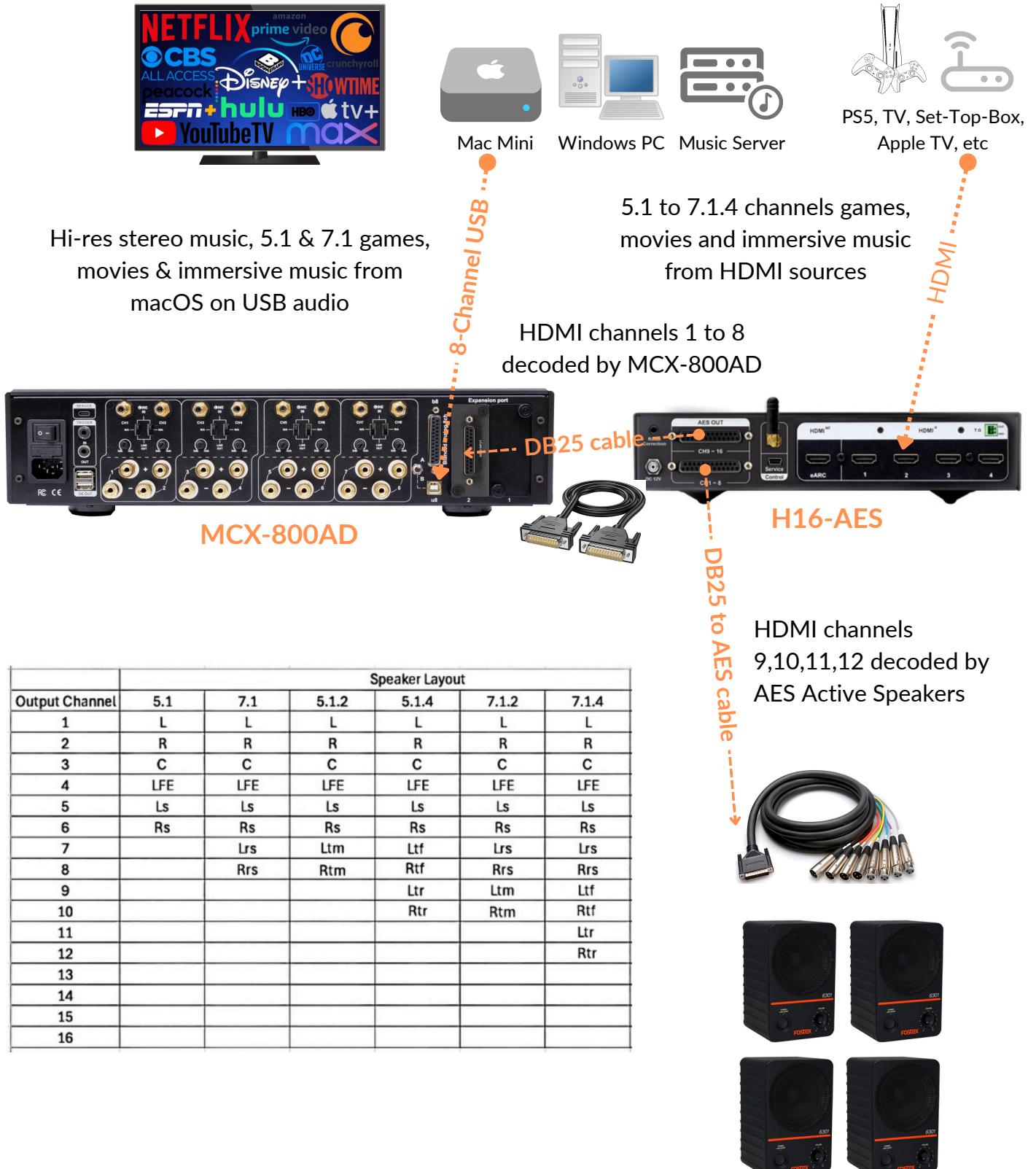
Channels
9,10,11,12

8-Channel USB

HDMI

Output Channel	Speaker Layout					
	5.1	7.1	5.1.2	5.1.4	7.1.2	7.1.4
1	L	L	L	L	L	L
2	R	R	R	R	R	R
3	C	C	C	C	C	C
4	LFE	LFE	LFE	LFE	LFE	LFE
5	Ls	Ls	Ls	Ls	Ls	Ls
6	Rs	Rs	Rs	Rs	Rs	Rs
7		Lrs	Ltm	Ltf	Lrs	Lrs
8		Rrs	Rtm	Rtf	Rrs	Rrs
9				Ltr	Ltm	Ltf
10				Rtr	Rtm	Rtf
11					Ltr	
12						Rtr
13						
14						
15						
16						

Use Case3: A Mid-Level Stereo and Home Theater System with USB Audio and HDMI Sources



Use Case4: A High-End Stereo and Home Theater System with USB Audio only Sources



Computer Sources

Online Games, Movies and Immersive Music 5.1 to 7.1.4 Channels



Two USB audio ports delivering 16 channels PCM



MCX-800AD

(Channels 9 to 16)

8-Channel USB

8-Channel USB
(Channels 1 to 8)



Fusion 8D

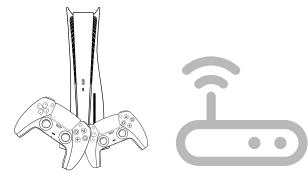


Fusion 4X + 3X Amps

Use Case: An Entry Level Gaming System with HDMI Sources



Movies, Games, Stereo
& Immersive Music



Stereo, 5.1 to 7.1.4
Channels

PS5, TV, Set-Top-Box,
Apple TV, etc

H16-ANA - A full-featured **AV Processor** with room acoustic calibration and 16 channels XLR outputs.



DB25 to 16-Channel XLR Converter



Entry Level Music &
Gaming Setup with
Active Speakers



Expand from 2.1 to 7.1.4

