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.



CH1~8



Mac Mini

Windows PC Music Server

USB audio delivering multi-channel PCM



PS5, TV, Set-Top-Box, Apple TV, etc HDMI Outputs: Dolby & DTS

Core Component: Compact AV Processor



• HDMI eARC

Speaker Layouts

All Fusion-X platform devices follow industry-standard speaker layouts for Dolby multi-channel systems

Output Channel	Speaker Layout							
	5.1	7.1	5.1.2	5.1.4	7.1.2	7.1.4	9.1.4	
1	L	L	L	L	L	L	L	
2	R	R	R	R	R	R	R	
3	С	С	С	С	С	С	С	
4	LFE	LFE	LFE	LFE	LFE	LFE	LFE	
5	Ls	Ls	Ls	Ls	Ls	Ls	Ls	
6	Rs	Rs	Rs	Rs	Rs	Rs	Rs	
7		۲s			Lrs	Lrs	Lrs	
8		Rrs			Rrs	Rrs	Rrs	
9							Lw	
10							Rw	
11				Ltf		Ltf	Ltf	
12				Rtf		Rtf	Rtf	
13		n Than an Arrights	Ltm		Ltm			
14			Rtm		Rtm			
15				Ltr		Ltr	Ltr	
16				Rtr		Rtr	Rtr	

H16-ANA

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



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



MCX-800AD

Output Channel	Speaker Layout							
	5.1	7.1	5.1.2	5.1.4	7.1.2	7.1.4	9.1.4	
1	L	L	L	L	L	L	L	
2	R	R	R	R	R	R	R	
3	С	С	С	С	С	С	С	
4	LFE	LFE	LFE	LFE	LFE	LFE	LFE	
5	Ls	Ls	Ls	Ls	Ls	Ls	Ls	
6	Rs	Rs	Rs	Rs	Rs	Rs	Rs	
7		۲s			Lrs	٢s	Lrs	
8		Rrs			Rrs	Rrs	Rrs	
9							Lw	
10							Rw	
11				Ltf		Ltf	Ltf	
12				Rtf		Rtf	Rtf	
13		2 TX. 1. × 9₩3 1	Ltm		Ltm			
14			Rtm		Rtm			
15				Ltr		Ltr	Ltr	
16				Rtr		Rtr	Rtr	

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



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



decoded by MCX-800AD



MCX-800AD

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HDMI channels 11,12,15,16 decoded by **AES Active Speakers**

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



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.

