



DM NVX[®] AV-over-IP Sales Toolkit

Everything you need to know

The #1 AV-over-IP solution across the enterprise, medical, entertainment, and eSports industries, as well as education and government.





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AV-over-IP

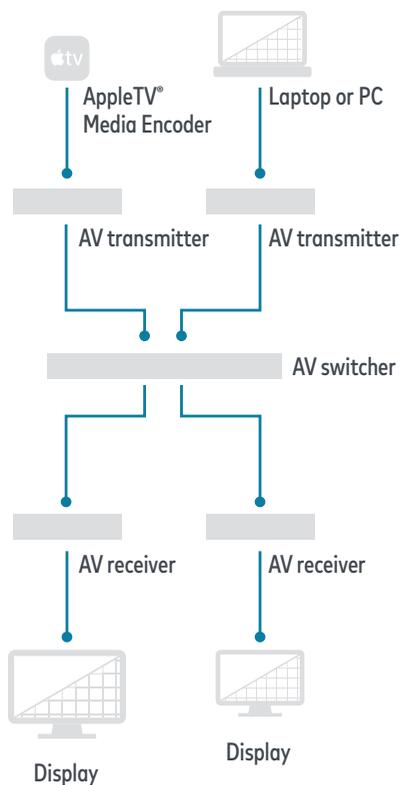
What is AV-over-IP?

AV-over-IP stands for Audio-Visual over Internet Protocol. It is the transmission of audio-visual data over a network (LAN). As the demand for higher quality content sent and received in real-time grows, so does the demand for AV-over-IP solutions.

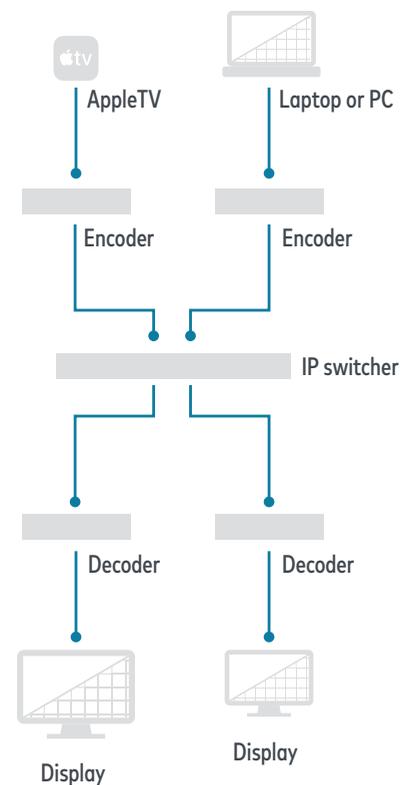
How does AV-over-IP work?

Unlike traditional AV solutions that employ AV switchers to send and receive audio and video signals, AV-over-IP utilizes standard network equipment to transmit and switch video and audio.

Typical HDBaseT® Setup



Typical AV-over-IP Setup



DM NVX®

What is DM NVX?

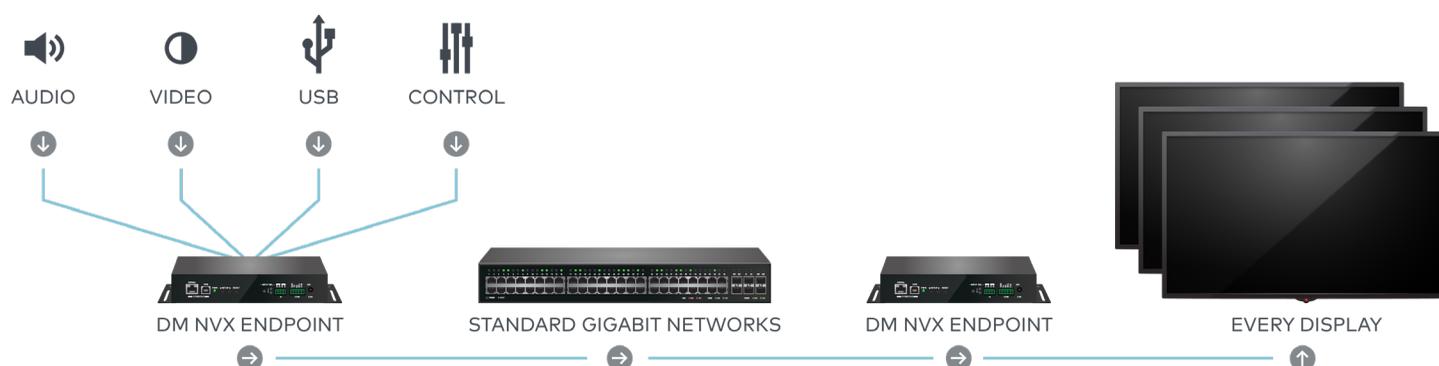
DM NVX is Crestron's AV-over-IP solution. Technology that has been successfully deployed throughout the workplace, the world of education, entertainment, medicine, and the public sector.

DM NVX is a 1Gb network AV solution that works with any network, any application, any design, anywhere. It gives every organization the ability to get video, audio, USB, and device control, wherever you need them on the network.

Crestron goes beyond most networked AV solutions. DM NVX units can function as either a network AV encoder or decoder. That means you don't have to decide in advance whether you'll need an encoder or decoder for a certain location. Simply deploy the DM NVX units and make your selection during installation from the drop down menu.



Features & Support



Multi-layered technology

DM NVX routes, distributes, and manages all of your video, audio, USB, and device control signals. All of their content (not just some of it) is routed through a single unit. Which provides lower costs, greater flexibility and efficiency.

AUDIO

Route any audio signal on the network. Supports the lossless transport of 7.1 surround sound audio signals, and stereo audio breakaway, across your entire network. AES67 is supported across the product range, while Dante® audio networking and downmixing are available on select models.

VIDEO

The only network AV solution with Pixel Perfect Processing. Every format including 4k60, 4:4:4 and HDR, is picture perfect every time. DM NVX is the standard for network AV.

CONTROL

Uses standard protocols to expand control across entire network, providing greater flexibility. One box provides greater system efficiency and easier management.

NETWORK CAPABILITIES

The only 1Gb solution that works with any network, any application, any design. Complete with a full range of enterprise and government security features.

USB

USB 2.0 routing for use with a wide range of peripherals: keyboards, mouse, gaming controllers.

DM NVX Hardware	DM-NVX-E10/-D10	DM-NVX-E20/-D20	DM-NVX-E20-2G
Form Factor	Roombox		2-Gang Wall Plate
Type	Encoder or Decoder		Encoder

Video

Pixel Perfect Processing			
4K60 4:4:4			
4K60 4:2:0		✓	✓
4K30 4:4:4		✓	✓
1920x1080p	✓	✓	✓
Scaler			
EDID (Extended Display Identification Data)	✓	✓	✓
HDR			
HDR10+			
Dolby Vision® Standard			

Audio

DSP Downmix			
Dante			
Analog Audio	Input		1
	Output	1	1
Stereo 2-Channel	✓	✓	
AES67 (AoIP and AoE)	✓	✓	✓
Audio Standards	Dolby Digital® • Dolby Digital® EX • Dolby Digital Plus • Dolby® True		

Connectivity

	HDMI® Input	1 (Only Encoder)	1 (Only Encoder)	1
	HDMI Output	1 (Only Decoder)	1 (Only Decoder)	
USB over LAN (NUX)				
LAN	1x RJ45			
Power Supply	PoE or 24V DC External Supply			

Security & Support

Supported Standards	802.1x** /		
Support and Tools	Supports Enterprise-Grade Security, Comp		

Other

Advanced Features: Image Preview, Test Pattern Generator, Background Image			
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* Scaler capability integrated with Windows setting. ** 802.1X authentication and Active Directory depend on Windows setting for DM-NVX-SW products

	DM-NVX-D200	DM-NVX-E30/-D30	DM-NVX-351	DM-NVX-36x	DM-NVX-E760*
	Roombox	Roombox or Card	Roombox or Card	Roombox or Card	
	Decoder	Encoder or Decoder	Encoder or Decoder (Switchable)		Encoder

		✓	✓	✓	✓
		✓	✓	✓	✓
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
	✓		✓	✓	
	✓	✓	✓	✓	✓
		✓	✓	✓	✓
		✓		✓	
		✓		✓	

			✓	✓ (DM-NVX-363)	
				✓ (DM-NVX-363)	
			1 (Configurable)	1 (Configurable)	1 (Configurable)
	1	1			
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓

TrueHD • Dolby Atmos® • DTS® • DTS-ES • DTS 96/24 • DTS-HD • High Res DTS-HD® Master Audio™ • LPCM up to 8 channels

		1 (Only Encoder)	2	1	1DM 8GB+ HDBaseT
	1	1 (Only Decoder)	1	1	N/A
			✓	✓	
			2x RJ45/1 SFP	3x RJ45/1 SFP	2x RJ45/1 SFP
	PoE+ or 24V DC External Supply		PoE++/UPoE or 24V DC External Supply	PoE+ or 24V DC External Supply	PoE++/UPoE or 24V DC External Supply

ix** / AES-128 / Active Directory®** / TLS / HTTPS / SSH / SSL / SFTP

Compatible with DM NVX® Director, Crestron True Blue Support, XiO Cloud® & Native Configuration Tools

		✓	✓	✓	✓
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Unite HDBaseT® connectivity with AV-over-IP



DM-NVX-E760 enables the ability to bridge traditional AV systems with AV-over-IP, leveraging existing IP networks – giving you the best of all AV distribution platforms.

- An endpoint that bridges DM and HDBaseT outputs with a DM NVX network
 - Fully interoperable with current DM NVX ecosystem
 - Native integration of Crestron DM®, DMPS, and DM Lite® systems to DM NVX
- 1-Gang wall plate solution
 - 4K60 4:4:4 support when pairing a DM-TX-4KZ-100-C-1G
 - 4K60 4:2:0 when pairing with a HD-TX-101-C-1G-E
- Ideal solution for applications that require integrating AV-over-IP into existing HDBaseT systems or expanding an existing room system for broader distribution
- Native support for audio-over-IP to integrate with DM NVX and 3rd party systems

What you need to integrate HDMI® sources with DM NVX AV-over-IP

USB-over-IP Network Extenders transport USB signals over the network

A range of USB Extenders that give you the ability to connect USB peripherals at multiple locations throughout a business or educational facility and route them to one or more different devices or displays over the local Ethernet network. Consider the applications: KVM (keyboards, video, mouse), UC (cameras, mics and headsets), and e-gaming (controllers, and thumb drives).

Card Chassis



Cables



USB Extenders



Fiber Solutions



Management & Control

DM NVX Director® Switching Appliance

- Route content
- Monitor endpoints
- Visualize your AV network
- Manage at a campus level and create logical groups (domains) for your DM NVX platform. Break them into rooms or groups – whatever suits your business needs
- Visualize your AV network



Crestron XiO Cloud® Technology Operations Management Platform

- Remote help desk
- Maintain operation standards
- Manage device lifecycles
- Enhance insights



Crestron
XiO CLOUD®

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