



**MIXnet**  
NETWORKED VIDEO ECOSYSTEM

by **AV**Pro edge

# What is the MXNet Ecosystem?

The MXNet (Networked Technology Ecosystem) is a AV over IP / Network AV line of products from AVPro Edge. This technology uses a traditional networking infrastructure to route Audio Video signals throughout large scale systems that have limitless sources and displays. Inside the system you can route or repeat the sources to any of the connected displays. This entire Ecosystem is able to be control through any control system.

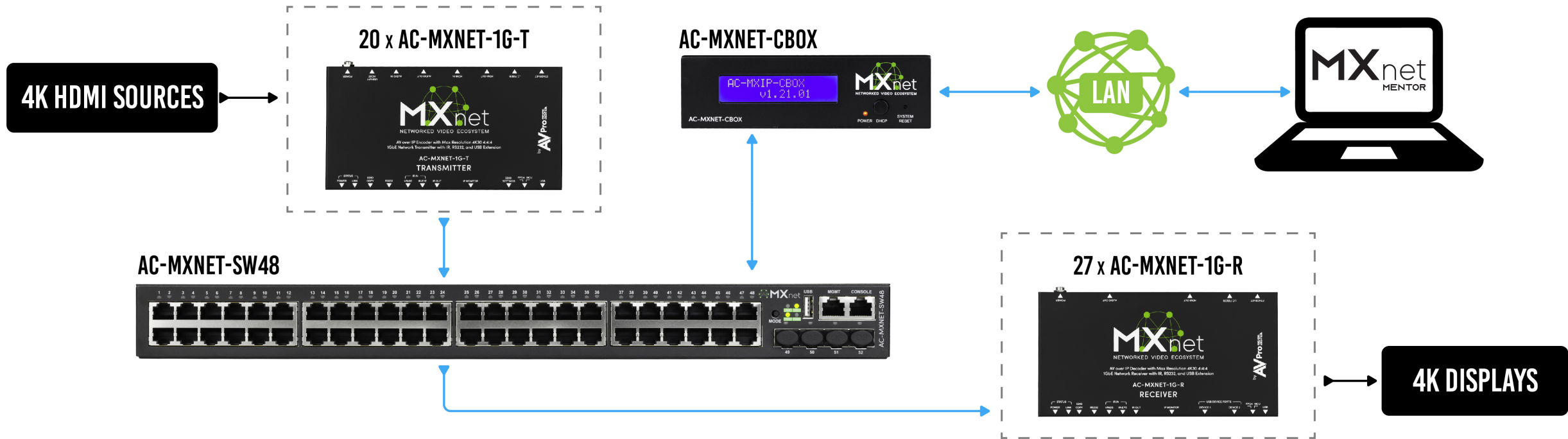
## MXNet Ecosystem Components:

- Network Switches
- Encoder
- Decoder
- Controller
- SFP adapters





# MXNET CONNECTION DIAGRAM





# MXNet, Why we are Different

All system Components Designed Engineered and Manufactured by Us  
*Our #1 goal is ease of deployment*

## Intuitive Configuration

*MXNet Mentor software included and industry leading technical support makes it easy to deploy*

## Fast Switching

*Including 4K, HDR and Format Changes*

## Extensive HDR Support for Superior Picture Quality

*Including HDR10, HDR10+, HLG and Dolby Vision*

## Video over USB 2.0

*Full Support for audio, video or data over USB 2.0*

## 10-Year Warranty

*Install with confidence*



by **AVPro** edge



# Optimization Tools

- **Network Switch Designed by AVPro Edge**  
Intelligent AV Processing is the technology we came up with to optimize our switch for HDMI signaling
- **End to End Optimization**  
We have optimized the full ecosystem.
- **Scaling**  
You choose the resolution
- **Format Conversion**  
Interlaced to Progressive
- **Configuration of Unlimited Video Walls**  
MXNet is built to work with unlimited number of video wall
- **Low Power Consumption**  
A low power signal is easier on the ecosystem components, ensuring long lasting stable installations
- **Bi-Directional IR and RS-232**  
USB Host Device Set-Up and Unlimited repeating and routing
- **Output Color Space Configuration**  
YUV or RGB you choose
- **HDR Metadata Control**  
Ability to force it on, turn it off, or leave it native
- **Bandwidth Management**  
Allows you to vary the bandwidth based on format requirement, allows you to manage your bandwidth
- **3<sup>rd</sup> Party Switch and Control System Support**  
You can use Cisco, Luxul, Netgear Network switches and Control systems like Control4, URC, Crestron, SAVANT and Elan



# Integrators Diagnostics/Troubleshooting Tools

## Hot Plug Event Control

Stop manually unplugging and plugging in HDMI cables when you want a Hot Plug Event

## OTA Remote Firmware Updates

Save's time, travel and headache managing firmware remotely

## Data Window

Quick Visual access to IP address, Alias and MAC address

## HDMI Signal Diagnostics

View characteristics of incoming/outgoing signals

## Network Strength Diagnostics

View characteristics of network health

## EDID management

You choose the signal format

## Remote Monitoring

Works with 3rd Party Control Systems

**ENCODER & DECODER CONFIGURATIONS**

INPUTS/ENCODERS/SOURCES		OUTPUTS/DECODERS/DISPLAYS		SYSTEM DIAGNOSTICS								
NAME(AUTO)	CUSTOM NAME	NETWORK CONNECTION	CONNECTION SPEED	HDMI VIDEO	HDR	COLOR DEPTH	HDMI AUDIO	HOT-PLUG	HDCP VERS	CONNECTED SINK/DISPLAY	SOURCE ENCODERS	DECODERS LIGHTS-ALL
Rx6	LG-BR	0000	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF	LG TV	BLU-RAY	ON
Rx2	LG-TR	0000	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF	LG TV	BLU-RAY	ON
Rx3	MUR-BL	0000	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF	32V3H-H6A	APPLETV-4	ON
Rx9	MUR-BR	FAE	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF		BLU-RAY	ON
Rx8	MUR-TL	0000	10	1920X1080/60Hz	NO	8bit	PCM	ON	HDCP 2.2	32V3H-H6A	SEVEN-G	ON
Rx1	MUR-TR	0000	10	1920X1080/60Hz	NO	8bit	PCM	ON	HDCP 2.2	32V3H-H6A	ROKU	ON
Rx11	VIDO-BL	0000	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF	E43-F1	BLU-RAY	ON
Rx4	VIDO-TL	0000	10	3840X540/60Hz	NO	8bit	PCM	ON	HDCP 2.2		SEVEN-G	ON
Rx10	VW-BL	0000	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF	BM-156	BLU-RAY	ON
Rx5	VW-BR	FAE	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF	BM-156	BLU-RAY	ON
Rx7	VW-TL	0000	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF	BM-156	BLU-RAY	ON
Rx12	VW-TR	0000	10	640X480/60Hz	NO	8bit	NON PCM	ON	OFF	BM-156	BLU-RAY	ON



INPUTS/ENCODERS/SOURCES		OUTPUTS/DECODERS/DISPLAYS		SYSTEM DIAGNOSTICS									REFRESH	CLOSE X
NAME(AUTO)	CUSTOM NAME	NETWORK CONNECTION	CONNECTION SPEED	HDMI VIDEO	HDR	COLOR DEPTH	HDMI AUDIO	HOT-PLUG	HDCP VERS	CONNECTED SINK/DISPLAY	SOURCE ENCODERS	DECODERS LIGHTS-ALL		
Rx6	LG-BR	GOOD	1G	640X480/60Hz	NO	8Bit	NON PCM		OFF	LG TV	BLU-RAY	ON		
Rx2	LG-TR	GOOD	1G	640X480/60Hz	NO	8Bit	NON PCM		OFF	LG TV	BLU-RAY	ON		
Rx3	MUR-BL	GOOD	1G	640X480/60Hz	NO	8Bit	NON PCM		OFF	32V3H-H6A	APPLETV-4	ON		
Rx9	MUR-BR	FAIL	NO SIGNAL	640X480/60Hz	NO	8Bit	NON PCM		OFF		BLU-RAY	ON		
Rx8	MUR-TL	GOOD	1G	1920X1080/60Hz	NO	8Bit	PCM		HDCP 2.2	32V3H-H6A	SEVEN-G	ON		
Rx1	MUR-TR	GOOD	1G	1920X1080/60Hz	NO	8Bit	PCM		HDCP 2.2	32V3H-H6A	ROKU	ON		
Rx11	VIZIO-BL	GOOD	1G	640X480/60Hz	NO	8Bit	NON PCM		OFF	E43-F1	BLU-RAY	ON		
Rx4	VIZIO-TL	GOOD	1G	3840X540/60Hz	NO	8Bit	PCM		HDCP 2.2		SEVEN-G	ON		
Rx10	VW-BL	GOOD	1G	640X480/60Hz	NO	8Bit	NON PCM		OFF	BM-156	BLU-RAY	ON		
Rx5	VW-BR	FAIL	NO SIGNAL	640X480/60Hz	NO	8Bit	NON PCM		OFF	BM-156	BLU-RAY	ON		
Rx7	VW-TL	GOOD	1G	640X480/60Hz	NO	8Bit	NON PCM		OFF	BM-156	BLU-RAY	ON		
Rx12	VW-TR	GOOD	1G	640X480/60Hz	NO	8Bit	NON PCM		OFF	BM-156	BLU-RAY	ON		



HOME  
SYSTEM UTILITIES



CONFIGURE  
(INPUTS/OUTPUTS)



AUTO-MATRIX



VIDEO WALL

ADVANCED



CEC/HDMI, RS232/IP



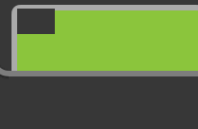
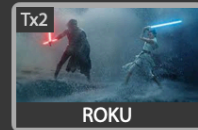
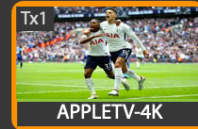
RS-232, IR DIRECT



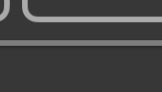
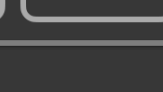
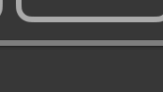
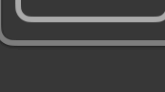
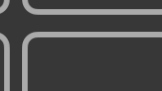
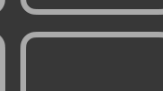
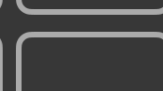
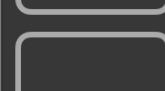
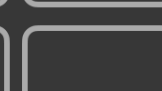
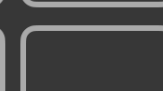
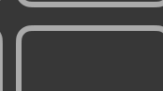
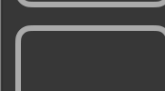
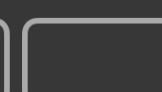
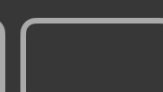
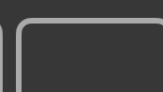
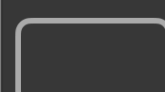
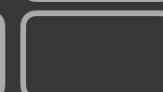
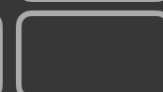
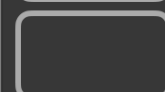
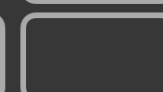
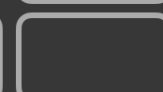
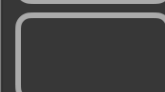
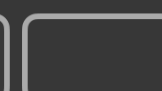
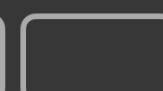
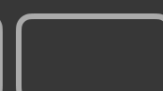
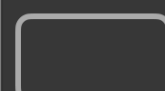
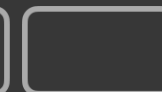
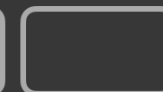
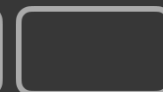
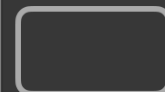
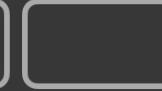
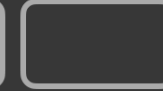
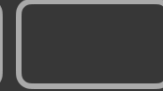
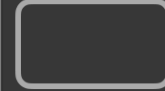
USB, KVM

## AUTO-MATRIX

### INPUTS



### OUTPUTS







# Benefits to Your Customer

- Great Picture Quality

4k60, Dolby Vision, HDR 10+Great

- Source Switching

Fast switching, any source to any displays, unlimited source repeating

- Video Walls

Unlimited amount of video walls, up to 64 panel support, easy to set up and use, 90 & 180 rotation

- Distance Runs

Fiber sfp's allow for long runs

- 10 Year Warranty

Peace of Mind knowing we have your back if something happens

- Expandable

Add limitless sources or TV's easily

- Control System Compatibility

Control4, Crestron, Elan, RTI, QSC, Savant, and more

- Extremely Quiet

No fans equal zero DB's!

- Serviceability

Built in monitoring and diagnosis and the ability to hot swap components



# VIDEO OVER HDBASET WITH ICT VS VIDEO OVER IP

Which video distribution technology should you use?



- Best Picture Quality
- Full HDR Support (12 bit)
- Built-in Josh.ai Audio Cards
- 16 or Less Video Zones
- Lower Overall Cost
- Visually Lossless Compression

## BOTH DISTRIBUTION TECHNOLOGIES

- Fiber & Copper Support
- Quiet Switching Options
- EDID Management
- Dolby Vision Support
- Dolby Atmos Support
- Video Scaling
- Control Drivers
- 4K 60hz (4:4:4)
- RS-232 and IR
- PoE or PoH



- Limitless Sources & Sinks
- No Distance Limits
- Video Wall Capability
- Networked Audio
- USB/KVM Switching
- Flexible Installation

# Questions?

We can't wait to work together to bring the very best in Audio/Video Distribution to your clients.



## MXNET THREE SWITCH CONNECTION DIAGRAM

