



MXnet Essential Series 24 Port Switch (AC-MXNET-SW24E)

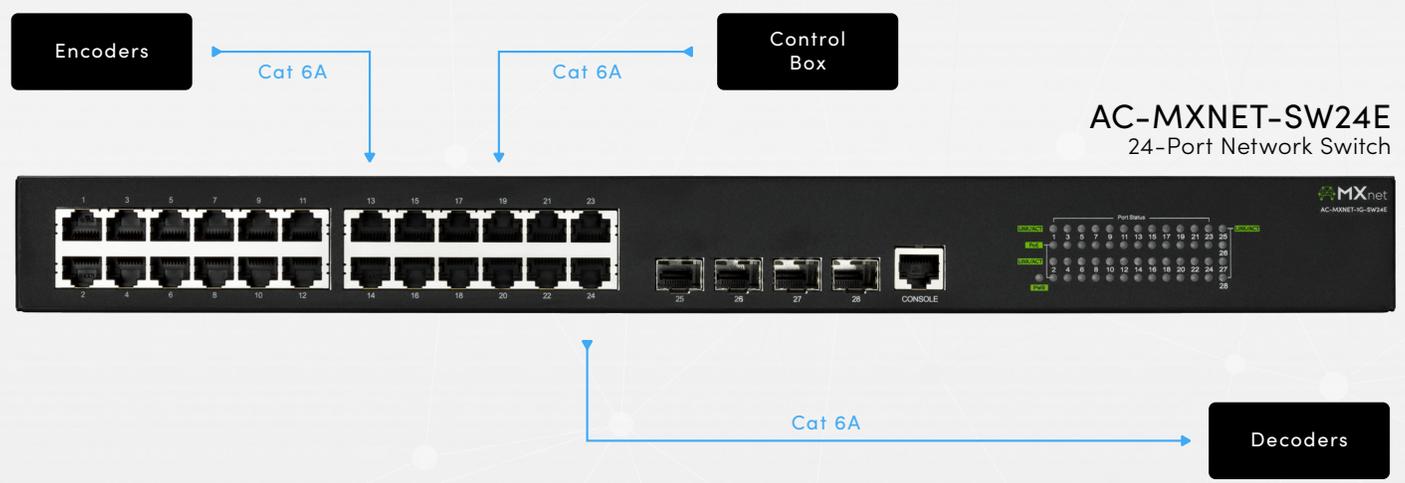
AVPro Edge engineered the AC-MXNET-SW24E as a cost-effective, advanced network switch to efficiently manage the advantages of MXnet USP series Essential, Plus, and Pro endpoints. Stacking is supported with appropriate bandwidth allocation. In standalone MXnet 1G and 1G Evo II systems, up to 23 endpoints plus the CBOX are supported by the AC-MXNET-SW24E PoE+ total power budget.

Employing an OSI Layer 2.5 architecture that integrates advanced Layer 2 data link capabilities with select Layer 3 network functions such as optimized multicast routing, the AC-MXNET-SW24E is pre-configured for MXnet USP, 1G, 1G Evolution II, and Dante audio protocols and features VLAN segmentation, QoS prioritization, and IGMP snooping settings enabled for out-of-the-box plug-and-play deployment. AVPro Edge's robust suite of proprietary Intelligent A/V Processing (IAVP) technologies correctly regulates multicast processor loads, ensuring high reliability for AV-over-IP traffic while delivering non-blocking Layer 3-equivalent performance at reduced cost compared to full Layer 3 switches.

The AC-MXNET-SW24E simplifies deployment with PoE+ connectivity, four 1G SFP expansion ports for effortless scalability, and MXnet-optimized profiles that eliminate complex network setup. Backed by AVPro Edge's signature build quality and trusted reliability, it delivers a versatile, cost-effective solution for professional-grade network performance in commercial projects such as hospitality, retail, and healthcare, while also ideal for residential AV applications.



SW24E Connection Diagram



PRODUCT SPECIFICATIONS

KEY BENEFITS

PORTS	
RJ45 Ports	24x 10/100/1000Base-T PoE+
SFP Ports	4x 100/1000Base-X SFP
Console Port	1 x RJ45
SWITCHING	
Switching Capacity	56 Gbps
Forwarding Rate	41.7 Mpps
MAC Address Table	8K
Jumbo Frame Support	Up to 10,000 bytes
Hardware Queues per port	8
VLAN Support	Up to 4k VLANs
ACL Entries	1,408
HARDWARE	
Switch ASIC	Realtek RTL8382M
Switch Chip Cache	512 KB
CPU	Embedded MIPS-4KEc with MMU
Memory	256 MB DDR3
Storage	32 MB SPI Flash
POWER	
Power Input	AC 100-240V, 50/60Hz
Power Supply	Internal
Maximum Power Consumption	450W
Switch Power Consumption	<30W
PoE Standard	IEEE 802.3af (PoE), IEEE 802.3AT (PoE+)
Total PoE Power Budget	370W
ENVIRONMENTAL	
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Operating Humidity	5-95% non-condensing
PHYSICAL	
Rack Space	1RU
Mounting Methods	Rackmount
Product Material	Metal
DIMENSIONS	
Dimensions (Unit only Width/Depth/Height)	17.32" x 10.23" x 1.72" (440mm x 260mm x 43.6mm)
Dimensions (Packaged Width/Depth/Height)	25.35" x 21.18" x 6.38" (644mm x 538mm x 162mm)
Weight (Unit)	8.13 lbs (3.69 kg)
Weight (Packaged)	10.13 lbs (4.59 kg)
Product Warranty	10 year warranty

Specifications subject to change without notice. Mass & dimensions are approximate

- Engineered With Cost-Effectiveness In Mind:** Advanced Layer 2.5 (L2+) architecture combines Layer 2 efficiency with Layer 3 routing flexibility for improved traffic management and support of multiple protocols. Price and complexity are reduced without compromising latency, forfeiting minor scalability, or inhibiting perceptible speed.
- Non-blocking Architecture for USP Deployments:** A stacking bandwidth of 4 Gbps exceeds the 1.44 Gbps maximum USP endpoint capacity for congestion-free stream routing with 2.8 Gbps headroom.
- 24 PoE+ Copper Ports:** Single-cable connectivity eliminates the need for external power supplies with a PoE+ budget of 370 watts, resulting in clutter-free, simplified installations with enhanced reliability and lower system costs.
- 4 x 1G SFP Stacking Ports:** Enables 4 x 1G stacking for USP/Dante audio systems or provides uplinks to core infrastructure. May also be used with Link Aggregation to increase bandwidth.
- Dante Audio Prioritized:** AVPro Edge is the first professional AV manufacturer to implement Dante-oriented QoS traffic prioritization to enhance network streaming performance in residential and commercial environments.
- Pre-configured for MXnet USP, 1G V1/V2, and Dante:** Truly plug-and-play in a standalone MXnet 1G or 1G EVO II system, with out-of-the-box MXnet USP and Dante audio protocol support. VLAN, QoS, and IGMP settings are optimized, with no additional adjustments required.
- 1 RU Compact Rack Height:** Standard AV rack mount spacing.

Note: There is an Installation Maximum of 4 Switch Hops.

