

MDX Series - IP Video Switches & Routers

Low latency, high availability IP Media Switches & Routers

The MDX series of low latency, high availability IP Media Switches & Routers are high performance hardware-based solutions that are configured for “fit for purpose” applications.

KEY FACTS:

- Over 40 Terabits per second fabric capacity
- Up to 30 billion packets per second
- Up to 2.56 Terabits per second per line card
- Wire speed L2 and L3 forwarding
- 10 and 40 Gigabit per second port speeds

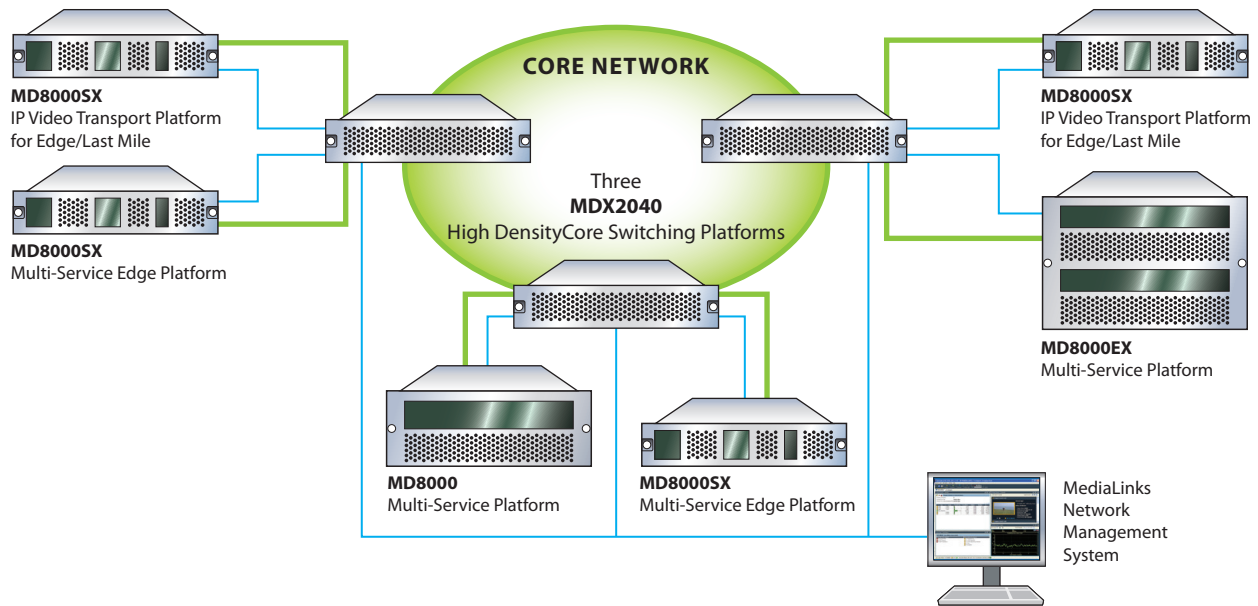
The MDX series of low latency, high availability IP Media Switches & Routers are high performance hardware-based solutions that are configured for “fit for purpose” applications. This product series offers advanced features for network monitoring, precision timing, and network virtualization to deliver a scalable, high performance, and reliable network.

The MDX IP Switches & Routers are designed to meet the requirements of mission-critical enterprise networks as well as improve overall switching performance. They can be effortlessly expanded as business needs and network traffic change, with an extremely high port density that leads to lower cost per port. They support various types of network redundancy for highly reliable and highly available networking.



Designed to combine compressed and uncompressed video / audio streams as well as TCP traffic over IP, the MDX series is ideal for end-to-end contribution to distribution networks where facility requirements demand guaranteed bandwidth and low latency over a single network. It offers 100% Quality of Service (QoS) for ensuring high-quality performance for the required level of service to guarantee throughput for mission-critical applications. Its non-blocking switch architecture offers a feature-rich solution for multicast applications, which require transmitting video and data traffic from a single source to multiple destinations in a network.

Through the MDX Series, Broadcasters, Telecoms, and content providers now have an advanced IP solution to deliver enhanced interactive services, offer a broad range of content, and scale their networks to support rapid growth in video and data traffic.



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MDX SERIES KEY FEATURES:

- High performance switching capacity for large-scale networks
- Low power consumption
- Guaranteed bandwidth control
- 100% Quality of Service (QoS)
- Non-blocking for multicast traffic
- Layer 2/3 hardware switching core, IPv4/IPv6 unicast and multicast hardware routing
- Ports speeds of up to 40Gbs
- Ultra Low Latency
- East-West Scalability
- Port and MAC VLANs
- Non-disruptive VLAN provisioning and seamless multicast joins
- High port density in a compact chassis form factor
- Automated dynamic provisioning
- Deep buffers for lossless delivery
- Operational visibility to provide early warning of congestion

MDX SERIES KEY BENEFITS:

- Combine video streams and TCP/IP data traffic over a single network
- Software Defined Networking (SDN) ready for true network programmability
- Open APIs for third party integration
- Simplified and automated configuration for rapid deployment and expansion
- Open and extensible operating system (EOS) to ensure a scalable network operating system (OS) that offers high availability, streamlines maintenance processes, and enhances network security
- Full SNMP management under the Media Links NMS management system
- High reliability/availability, including redundant power supplies and redundant upstream and downstream links, loop detection, and storm control

APPLICATIONS FOR THE MDX SERIES:

- Layer 2 & Layer 3 core switching
- Core networks for Media organizations and media outlets
- Contribution video
- Tap Aggregation for Network Traffic Monitoring

FUNCTIONAL SPECIFICATIONS:

Interface	10GBASE-R SFP+	44-port
	40G QSFP	4-port
Layer2 Functions	VLAN	Port-VLAN, Tag-VLAN,(IEEE 802.1Q), MAC VLAN, Protocol VLAN
	Spanning Tree Protocols (STP)	STP(IEEE 802.1D), RSTP(IEEE 802.1w), MSTP(IEEE 802.1s), PVST
	Multicast Snooping	IGMPv1/ v2/ v3 Snooping, MLDv1/ v2 Snooping(*)
Static Multicast Routing Protocol		MGLP(**)
Layer 3 Functions	IPv4	Routing Protocol RIP, OPSF, BGP4
		Multicast Protocol IGMPv2/ v3, PIM-SM, PIM-SSM(*)
	IPv6	Routing Protocol RIPng, OSPFv3, BGP4+
		Multicast Protocol MLDv1/ v2, PIM-SM, PIM-SSM(*)
QoS		IEEE 802.1p, DSCP/User-Priority, Diffserv
High Availability		VRRP(IPv4/IPv6), Link Aggregation (IEEE 802.3ad), IEEE 802.3ah/UDLD, GSRP, Uplink redundant
Management Interface		SNMPv1/ v2/ v3, MIB II, RMON

* This function doesn't work with MGLP

** Proprietary protocol for fast switching between static Multicast entries

CHASSIS SPECIFICATIONS:

GENERAL	Dimensions	2RU for 19" Rack Mount H: 3.5" / 8,8cm W: 17.5" / 44,5 cm D: 15.0 / 38,0cm	
	Weight	33 lbs. / 15 kg	
	Ambient Operating Temperature	0°C to +55°C 32°F to 131°F	
POWER SUPPLY	Units	2 Slots for redundant PSU	
	Input Voltage	AC	90 to 240 VAC (50 / 60 Hz)
		DC	-48V
	Power Consumption	300W	

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