



## 200 Gigabit Local Access Video and Data Transport Platform

### FUNCTIONS

- Interfaces for DVB-ASI, SDI, HD-SDI, JPEG2000, E1/T1, 10/100/1000 BaseT and Audio
- Supports multicast and multiple unicast of all video and data streams
- Supports SONET/SDH and IP/Ethernet Trunk interfaces

### FEATURES

- 100% QoS
- Core SONET/SDH compatibility
- Integration with IP/MPLS transport systems
- Hitless / Seamless Switching
- SNMP control and management

### APPLICATIONS

- Carrier Class Media Networks
- High Performance Studio Interconnects
- Flawless Contribution Video Transport
- Reliable Content Delivery System
- Integrated Live, Recorded and File-Based Communications

## MD8000-Chassis Local Video Access Platform

A powerful, cost effective video and data networking solution supporting all current and future MD8000 Line and Trunk cards. Services range from low rate multiport DVB-ASI, JPEG2000 for SD/HD to uncompressed HD-SDI over 10G LAN/WAN PHY.

**The MD8000 system is based on existing Ethernet standards**, as well as GFP/SONET/SDH Standards. In addition, all video interfaces are standards compliant to SMPTE's 2022 family of video over IP standards. This includes both encapsulation and FEC. SDI, HD-SDI, DVB-ASI and JPEG2000 encapsulated signals will all follow these standards.

**Multicast to multiple destination transmission** is supported and in cases with non-multicast enabled networks, multiple unicasts of the same stream can be initiated provided the bandwidth of the NIC port is not exceeded.

**The MD8000 family sets the stage for convergence** between SONET/SDH and IP based networks with the use of the ITU-T G.7041 Generic Framing Protocol. GFP provides a gateway between Legacy SONET/SDH infrastructure and next generation IP/Ethernet networks.

**3 different available Chassis types** offer a cost effective configuration:

**The MD8000EX Chassis** [7RU] providing redundant PSU and Switch Controllers and a whole of 14 non-blocking Slots of 10Gb and 10 non-blocking Slots of 5Gb connectivity each.

- 200Gbps Non-blocking L2 Switch Fabric
- All 24 slots available for either Trunk or access modules



MD8000EX

**The MD8000 Chassis** [4RU] also equipable with redundant PSU and Switch Controllers having 9 non-blocking Slots of 10Gb connectivity each.

- 90Gbps Non-blocking L2 Switch Fabric
- 9 Slots available for access and trunk modules



MD8000

**The MD8000SX Chassis** [2RU] with redundant PSU, single Switch Controller and 6 non-blocking Slots of 10Gb connectivity each.

- 60Gbps Non-blocking L2 Switch Fabric
- 6 Slots available for access and trunk modules



MD8000SX

### General Features

- 10Gb connectivity per slot
- All modules "hot-swappable"
- Mid plane design with no active components on rear connectors
- Cable management for all modules from behind
- Power consumption: 30W per board, 80W per SWCNT-board
- Add/Drop/Pass Capability
- One to any multicast capability
- Multiple Unicast for non multicast enabled networks
- SFP Modules support DDS (Tx/Rx Power, Laser Bias, etc.)

# MD8000-Chassis

## SPECIFICATIONS

GENERAL	Dimensions	MD8000EX	7RU for 19" Rack Mount H: 12.25" / 31,12 cm W: 17.5" / 44,45 cm D: 22.0" / 55,88 cm
		MD8000	4RU for 19" Rack Mount H: 7.0" / 17,78 cm W: 17.5" / 44,45 cm D: 22.0" / 55,88 cm
		MD8000SX	2RU for 19" Rack Mount H: 3.5" / 8,89 cm W: 17.5" / 44,45 cm D: 22.0" / 55,88 cm
	Weight	7RU	60 lbs. / 27 kg
		4RU	42 lbs. / 19,2 kg
		2RU	33 lbs. / 15 kg
Ambient Operating Temperature		0°C to +55°C 32°F to 131°F	
Subminiature D		External Alarm Output	
AC	Power Supply Units	2 Slots for redundant PSU	
	Input Voltage	90 to 240 VAC (50/60 Hz)	
	Power Consumption	80W per SWCNT-board 30W per module	
SWITCH CONTROLLER	IP Switch Controller Slots	2 Slots for redundant IP Switch Controllers (except 2RU Chassis)	
	1x RJ45	10/100 BaseT for Management Connection	
	1x BNC	Black Burst Signal Input Cable (BNC)	
	1x Subminiature D	External Clock Input	

Specifications subject to change

## ORDERING INFORMATION

## ORDER NUMBER

## ORDER CODE

24 slot user Interface (7RU Chassis)	MD80T002	MD8000EX Chassis(EU)
AC Power Supply for 7RU Chassis	MDPS0010	MD6U1500-PS(EU)
24 User Interface (7RU) Chassis with DC Power Input	MD80T006	MD8000EX(DC) Chassis
48V DC Power Supply for 7RU Chassis	MDPS0014	MD6U1000-PS(DC)
24 Port x 10Gb Switch Module (7RU Chassis)	MD803004	SWCNT24-F-SD
9+3 User Interface (4RU Chassis)	MD80T001	MD8000 Chassis(EU)
9+3 User Interface (4RU Chassis) with DC Power Input	MD80T005	MD8000(DC) Chassis
AC Power Supply for 4RU Chassis	MDPS0011	MD-4U1000-PS(EU)
48V DC Power Supply for 4RU Chassis	MDPS0015	MD-4U500-PS(DC)
6 User Interface (2RU Chassis)	MD80T009	MD8000SX Chassis(EU)
AC Power Supply for 2RU Chassis	MDPS0016	MD-1U800-PS
9 Port x 10Gb Switch Module (4RU Chassis)	MD803003	SWCNT9-F+SD

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