

**MEDIA LINKS®**  
Pixel Perfect Delivery

## Advanced HD Compression and Transport over Gigabit Ethernet

### FUNCTIONS

- HD Compression and Transport over IP Networks
- Transparent Pass-thru of SDI and ASI
- Reliable Clock Recovery
- Adjustable Delay for Automatic Packet Retransmission up to 3 sec
- Maintains Video/Audio Sync with all delay settings

### FEATURES

- Low End-to-End Delay
- Minimal Compression for High Video Quality
- Automatic Detection of Video Input Format
- Automatic Error Correction and Packet Resend Capability
- Auto IP Bandwidth Reduction when Video Signal is Absent

### APPLICATIONS

- Adapt Video to Core IP/MPLS Network
- Live Contribution and Distribution Video
- IPTV Content Backhaul
- Local/Wide Area Program Exchange
- Uplink/Downlink Tail Circuits

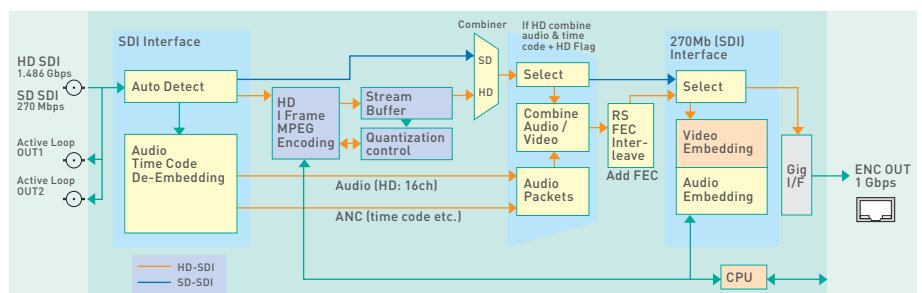
## MD2000 HD-GigE HD Compression Codec and IP Video Gateway

The HD-GigE™ IP Gateway transports HD-SDI/SD-SDI/DVB-ASI signals over IP networks and offers a cost effective alternative to traditional video transport services. The flexible, HD intraframe compression codec produces a high quality video signal that can be transported over Gigabit Ethernet networks. Standard Definition and ASI signals are automatically detected and passed through transparently.

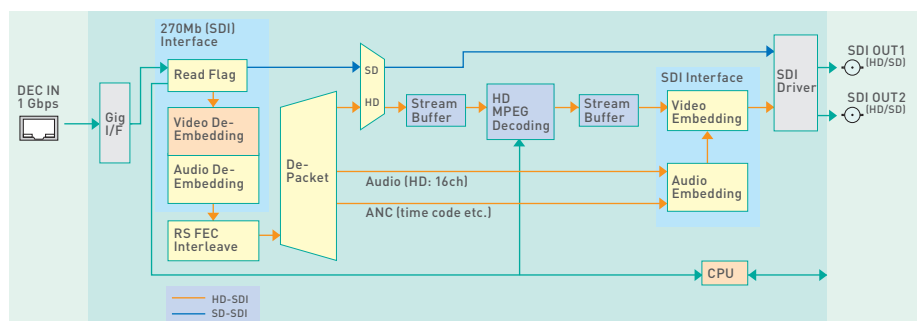
By utilizing field by field encoding, the entire codec process adds less than 10 milliseconds of end-to-end delay to the video signal. The encoder can generate bitrates ranging from 251Mbps to 586Mbps, providing flexible control of the Gigabit Ethernet bandwidth to suit various applications. These codecs can also transport up to 16 channels of uncompressed AES audio and are capable of transporting Dolby® E.

HD-GigE output is compatible with a wide variety of IP network equipment. Signals from multiple devices can be combined using standard IP switches to share local and long distance facilities. Random bit errors and single lost packets are corrected utilizing robust forward error correction. Multiple lost packets or short term network failures are corrected through optional automatic packet retransmission.

The HD-GigE resides in the MD2000™ series multi-purpose frames and the MD003-1RU hybrid frame. Dual redundant power supplies and modular rear I/O connections provide maximum flexibility and reliability. An ANMP compliant controller with built-in web browser ensures that the system can be controlled and monitored locally or remotely.



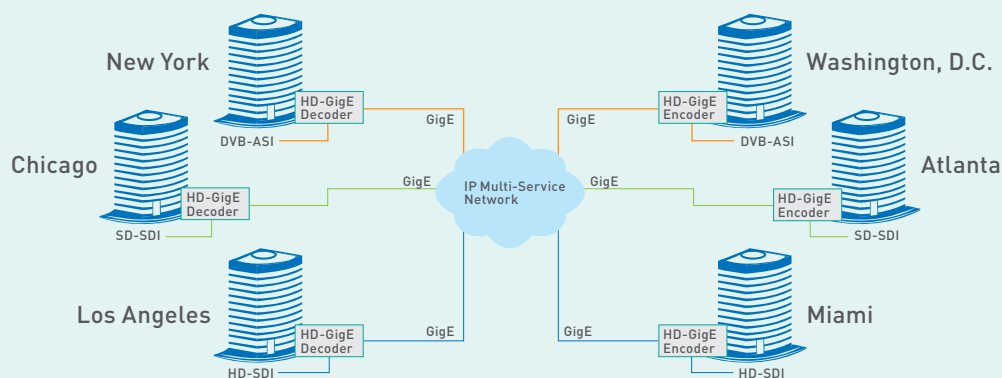
HD-GigE Enc



HD-GigE Dec

# MD2000 HD-GigE

## APPLICATION



## SPECIFICATIONS

Parameter		HD-GigE Encoder	HD-GigE Decoder
General Specifications	Inputs	HD-SDI/SD-SDI/DVB-ASI (auto-detection)	1000 Base-T
	Outputs	1000 Base-T	HD-SDI/SD-SDI/DVB-ASI
	HD Video Formats	1080i/720p, 59.94Hz/50Hz	1080i/720p, 59.94Hz/50Hz
	Audio Formats	AES embedded 16ch.(HD)/8ch.(SD)/Dolby® E	AES embedded 16ch.(HD)/8ch.(SD)/Dolby® E
	Connectors	BNC RJ-45	1 video input/2 active loop outputs 1000 Base-T output
Physical	Size	2RU module/occupies 2 slots	2RU module/occupies 2 slots
	Power Consumption	14 watts	14 watts
	Operating Temperature	0°C to +40°C	0°C to +40°C
System Specifications	Compression	Field by field compression on HD video signal	
	Payload	HD	251 Mbps, 335 Mbps, 418 Mbps, 502 Mbps, 586 Mbps
		SD/DVB-ASI	303 Mbps
	Pass Through	Ancilliary data, audio, SD-SDI video	
	End to End Delay	10 ms, adjustable delay for automatic packet retransmission up to 3 seconds	
Forward Error Correction	Reed Solomon		
Network Management	Interface	10 Base-T via controller card (SNMP trap & browser interface)	
	Control & Monitoring	NaviNet® SNMP control & monitoring software	

Specifications subject to change

## ORDERING INFORMATION

## ORDER CODE

HD over Gigabit Ethernet encoder module, SMPTE 292 compressed to 172Mbps - 543Mbps, IP interface, occupies 2 slots, includes rear connector panel	MD-2U-5001
HD over Gigabit Ethernet decoder module, IP interface converted to SMPTE 292, occupies 2 slots, includes rear connector panel	MD-2U-5002
2RU chassis with 2 power supply modules, (16 processing slots + 1 controller slot)	MD-2U-T002
1RU half rack chassis with 1 power supply module (1 processing slot)	MD2UT112-G000
1RU full rack chassis with 2 power supply modules, (2 processing slots, 2 transport slots + 1 controller slot)	MD003-1U
MD-1U shelf controller module with SNMP/web browser interface	MD-1U-9001
MD-2U shelf controller module with SNMP/web browser interface	MD-2U-9001
1RU half rack- single chassis 19" rack-mount bracket	MD2UP002-G000
1RU half rack- double chassis 19" rack-mount bracket	MD2UP001-G000

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