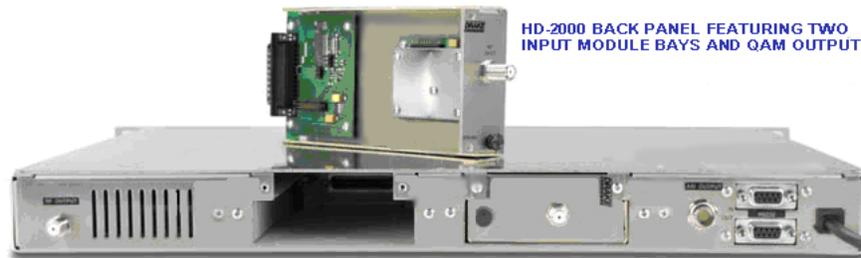


HD-2000 Multiplexing Hybrid QAM Modulator



HD-2000 is the industry's first commercial-grade, multiplexing Hybrid QAM modulator. Ideal for applications where a single QAM output is required from each Hybrid QAM chassis, the HD-2000 features a variety of plug-in input modules including an ATSC/QAM input tuner, an ASI input, an IP input (future release), and analog NTSC inputs, bringing an unprecedented level of flexibility to cable operators.

The HD-2000 has bays for up to two input modules. The video content from both modules enters the main chassis where it is MPEG program filtered, multiplexed, and groomed. Any number of program streams may be sent to the QAM modulator or be exported via ASI Output.



HDT-100 Module and ASI II Module

The HDT-100 input module tunes any 8VSB or QAM channel between 54 and 1002 MHz, making it ideal for digital channel processing applications where a single digital video signal is received, error-corrected, clocked (at a user determined fixed rate) and re-modulated on the same or another RF channel.

The HDT-100 may be used to convert one off-air ATSC 8VSB signal to a QAM output with rate adjustment or, when used in the processor mode with only one input, the HD-2000 can process ATSC or CATV QAM MPEG-2 inputs.



ASII ASI Input Module

The ASII module is for use in the HD-2000. One module provides one DVB-ASI SPTS or MPTS input for the HD-2000. One or two ASII modules may be used in a HD-2000.

Using the ASII module, programs may be input to the HD-2000 where they will be program filtered, retimed, and multiplexed with programs from the other input module.

The ASII module can accept data rates up to 80 Mbps. Possible sources are satellite IRDs, output from a fiber link, encoders, terrestrial demodulators, video servers and other related equipment.

The ASII also provides an ASI output which provides a looped out copy of the ASI stream coming into the ASI input port of the same ASII module.

ASII ASI INPUT MODULE SPECIFICATIONS	
ASI INPUT CLOCK:	270 MHz
ASI INPUT DATA RATE:	MAXIMUM OF 80 Mbps
ASI OUTPUT RATE:	IDENTICAL TO THE ASI INPUT STREAM

HDM-100 Standard Definition Encoder Module

The HDM-100 module can encode up to two input sources, source 1 and source 2 in real-time. The module may be configured to encode source 1 in either MPEG2 or MPEG4 (H.264) transport streams. Source 2 may be encoded in MPEG2 only. Thus each Encoder Module can output one MPEG2 stream, two MPEG2 streams, one MPEG4 stream, or one MPEG2 and one MPEG4 stream.



Each HDM-100 module provides two sets of input connectors for NTSC composite or S-video with stereo audio. Audio is encoded using Dolby AC-3 encoding.