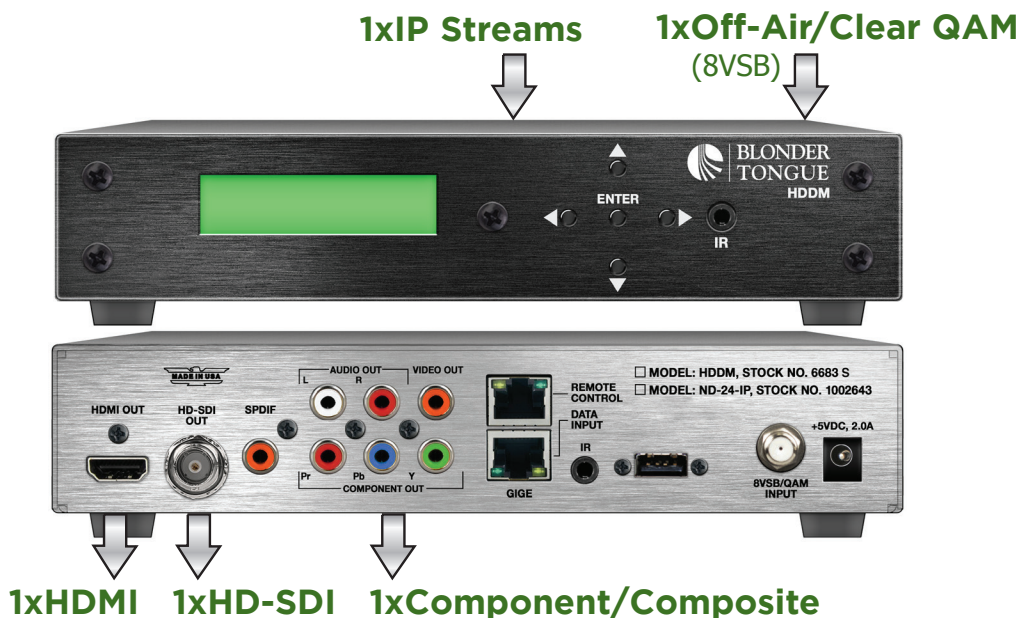# SOLUTIONS FOR ALL YOUR APPLICATIONS

The **HDDM (High-Definition Demodulator Module)** is a low cost professional video decoder that can decode a single IP transport stream, off-air digital 8VSB channel, or a program from a clear QAM source. The unit accepts content in either MPEG-2 or H.264 video formats and outputs simultaneously 1xSDI, 1xHDMI, 1xComponent, and 1xComposite video interfaces with embedded audio or separate analog audio. SDI outputs are available in 3G-SDI, HD-SDI, or SD-SDI formats.

The unit can be used as a stand-alone high quality decoder, or used in conjunction with other IP encoders, to provide an end-to-end IP video delivery solution.

Comprehensive remote monitoring and control is accomplished using any standard Web browser via a rear-panel 10/100 Ethernet connection.

1xIP Streams   **1xOff-Air/Clear QAM** (8VSB)

1xHDMI   1xHD-SDI   1xComponent/Composite

Features

- Decodes Off-Air, Clear QAM, and IP
- Supports simultaneous video outputs
- Supports MPEG-2 and H.264 content
- Closed Captioning support on SDI output
- Rack-mountable, two across in 1RU
- Accepts VBR (Variable Bit Rate) and CBR (Constant Bit Rate) video streams
- Unicast or Multicast (IGMPv2 & IGMPv3)
- Separate Web-based management port for local and remote control
- Front Panel Display with on-screen menus for easy IP configuration setup
- IP Security Camera Decoding (VLC Compatible)

Applications

- Service Providers or Content Producers: Point-to-point 3G-SDI, HD-SDI or SD-SDI transport over managed or unmanaged IP networks
- Education Environments: Select content from internal IP or RF clear QAM network
- Command & Control Centers: Back-haul live feeds
- Broadcast Monitoring: Local or remote video production viewing, including live events
- Corporate Meetings or Events: Transport live video
- House of Worship: Expand to multiple locations

Ordering Information

Model	Stock #	Description
HDDM	6683 S	High-Definition Decoder with HD-SDI, HDMI, Component and Composite output
Zixi Link License	6674	Zixi Link License for Point-to-Point Links
HDDM-RP-2	6672	Rack Panel for two HDDM Decoders in 1RU

Made in U.S.A.

Rev: 020217

Specifications

Input

IP Mode
Connectors:	RJ-45
Standard:	100/1000Base-T Ethernet
UDP/RTP:	Supported
Protocols:	IGMPv3/IGMPv2 Supported

Stream Portfolio
SPTS and MPTS:	Null Packet Deletion
Bit Rate:	Variable and Constant

8VSB Mode
Connectors:	1x "F" Female
Standard:	ATSC Digital Television A/53E
Tuning Range:	UHF (Ch.14-69), VHF (Ch.2-13)
Data Rate:	19.392 MHz
Bandwidth:	6 MHz
Power Level:	-20 to +20 dBmV
Impedance:	75 Ω

QAM Mode
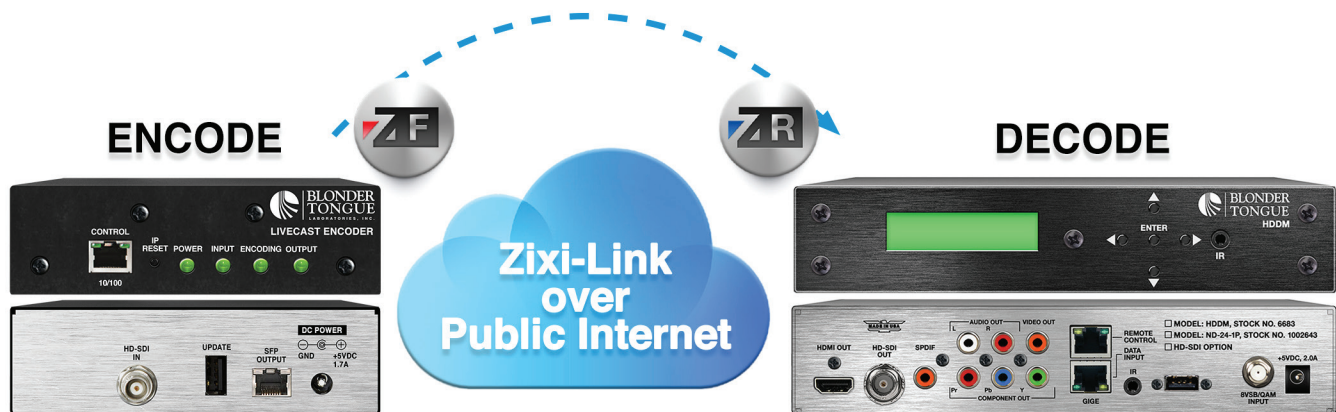|	
Connectors:	1x "F" Female
Standard:	ITU-T J.83; Annex A and B (64 and 256 QAM)
Tuning Range:	CATV Ch. 2-158 (STD, HRC, IRC)
Data Range:	38.8 Mbps (QAM 256); 26.97 Mbps (QAM 64) — Auto Detect
Bandwidth:	6 MHz
Power Level:	-15 to 20 dBmV (@ QAM 256) -20 to 20 dBmV (@ QAM 64)
Impedance:	75 Ω

Alarms/Monitoring/Control

Local Monitoring:	Front-panel LCD screen
Local Control:	Front-panel Navigational Key-pad
Remote Monitoring/ Control:	GUI-based menu via Web browser (1x RJ45 rear-panel connector; 10/100Base-T) IR input: 3.5 mm (future firmware release)

Output

3G/HD/SD-SDI
Connectors:	1x BNC
Standards:	SMPTE 424M (3G), SMPTE 292M (HD) & SMPTE 259M (SD)
Video Resolution:	480i, 720p, 1080i, & 1080p
Audio:	Embedded PCM

HDMI
Connectors:	1x HDMI
Video Resolution:	480i, 720p, 1080i, & 1080p
Audio:	Embedded PCM

Composite
Connectors:	1x RCA for Video (Y)
Video Resolution:	480i
Audio:	2x RCA for Analog Audio (L,R)

Component
Connectors:	3x RCA for Video (Y, Pb, Pr)
Video Resolution:	480i, 720p, & 1080i
Video Aspect Ratio:	4:3 & 16:9
Audio:	2x RCA for Analog Audio (L,R)

Digital Audio (SPDIF)
Connectors:	1x RCA

General

Dimensions (W x D x H):	8.69 x 8.0 x 1.97 inches (220.7 x 203 x 50.0 mm)
External Power Supply:	5 VDC @ 2.5 amp
Weight:	3.0 lbs (1.36 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensing

When the HDDM is used with one of our Zixi-enabled encoders (LiveCast or HDIP with Zixi option) and a Zixi Link license, it can provide a reliable IP video transport from anywhere in the world with an internet connection. The HDDM can also be used in a point to multipoint application, where the HDDM would decode the IP based Zixi protocol stream from a Zixi Broadcaster. The combination of Blonder Tongue's **encoding** and **decoding** technology along with Zixi software, provides content-aware bandwidth optimization, error correction, and packet loss recovery over IP networks.

Related Products

Model	Stock #	Description
HDIP w/Zixi Option	6324 Z	High Definition IP encoder with Zixi Output option
LC-RP-3	6303	Rack Mount Chassis; holds 3 modules
LC-S	6322	LiveCast HD-SDI Encoder (Copper SFP Included)