



Blonder Tongue

HDIP

High Definition IP Encoder

SOLUTIONS FOR ALL YOUR APPLICATIONS

The **HDIP** encoder is a small form factor low cost encoder that is ideal to encode single SDI source for IP backhaul or IPTV distribution. The **HDIP** encoder is a MPEG-2 or H.264 digital video encoder with a single HD/SD-SDI (with PCM embedded audio) input and an IP-encapsulation output via SFP Ethernet port. The HDIP can encode an HD and SD stream of the same content in either MPEG-2 or H.264 formats. A separate RJ45 10/100 Ethernet port is provided for control and monitoring.

The **HDIP** encoder includes an optional Zixi output protocol that provides the ability to stream content over an unmanaged network, including the public internet. The Zixi UDP based video-optimized protocol provides professional broadcasters, sports networks, and service providers to adapt to public internet using standard IP networks as a way to ingest and transport broadcast quality video.



Features

- Provides MPEG-2 and MPEG-4/H.264 video encoding
- Encodes an HD and SD stream of the same content in either MPEG-2 or MPEG-4/H.264 formats
- Resolutions of 480i, 720p, or 1080i
- HD-SDI with PCM-embedded audio
- Dolby® Digital, AAC, or MPEG1-Layer2 stereo audio encoding from PCM-embedded audio source
- IP output via SFP port (SFP optional-see back)
- Unicast and multicast capable
- Configuration and shutdown control via HTTP server UI and programmable API
- Built-in watchdog timer with system reboot capability
- Field-upgradable firmware
- Optional Zixi output

Ordering Information

Model	Stock #	Description
HDIP	6324	High Definition IP encoder
	6324 Z	High Definition IP encoder with Zixi output
HDIP-RP-3	6325	1RU Panel for mounting 3 HDIP encoders



Made in U.S.A.

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Rev: 053017
Blonder Tongue is ISO 9001:2015 Certified

Specifications

Input

Video:	SDI/HD-SDI BNC Type Input Connection Closed Caption Support (embedded only)
Audio:	SDI/HD-SDI with PCM Embedded Audio

Output

Video:	SFP Port IP SPTS (SFP module is optional)
Packet Format:	UDP 1x HD/SD Stream
Optional Zixi:	UDP transport stream protocol SPTS 1x HD/SD stream

Resolutions & Frame Rates

Input Video Modes:	480i (640x480/720x480 @ 30 FPS) 720p (1280x720 @ 60FPS) 1080i (1920x1080 @ 30FPS) AUTO-SCAN for Input Resolution
Video Format:	MPEG-2 or H.264
H.264 Profile Support:	Baseline, Main, High

Audio Options

Encoder Format:	Dolby® Digital or MPEG-1-Layer 2
Output Bit-rate:	128-320 kbps

General

Dimensions (W x D x H):	7.5 x 1.15 x 3.5 inches (190.5 x 29.21 x 88.9 mm)
Power:	110-120 VAC/60 Hz
Power Dissipation:	20 W
Weight:	1.2 lbs (0.54 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

Alarms/Monitoring/Control

Local Monitoring:	1x Power LED 1x SDI Input LED 1x Encoding LED 1x IP network connected LED
Local Control:	1x IP Reset button
Remote Monitoring/Control:	GUI-based menu via Web browser (1x RJ45 front-panel connector; 10/100Base-T)



Optional SFP Plug-ins (1000 BT copper)

Stock#	Model	Description
1002620	SFP-C-10/100/1000 Transceiver	10/100/1000BASE-T SFP, RJ-45, 100M, COPPER
1002621	SFP-MM-850-550M	1000BASE-SX SFP, 850NM, 550M, MMF, DDM
1002622	SFP-SMF-1310-10KM	1000BASE-LX SFP, 1310NM, 10KM, SMF, DDM
1002623	SFP-SMF-1550-80KM	1000BASE-ZX SFP, 1550NM, 80KM, SMF, DDM
1002624	SFP-SMF-CWDM-1470NM-80KM	1.25GBASE-CWDM-SFP, 1470NM, 80KM, SMF, DDM
1002625	SFP-SMF-CWDM-1490NM-80KM	1.25GBASE-CWDM-SFP, 1490NM, 80KM, SMF, DDM
1002626	SFP-SMF-CWDM-1510NM-80KM	1.25GBASE-CWDM-SFP, 1510NM, 80KM, SMF, DDM
1002627	SFP-SMF-CWDM-1530NM-80KM	1.25GBASE-CWDM-SFP, 1530NM, 80KM, SMF, DDM
1002628	SFP-SMF-CWDM-1550NM-80KM	1.25GBASE-CWDM-SFP, 1550NM, 80KM, SMF, DDM
1002629	SFP-SMF-CWDM-1570NM-80KM	1.25GBASE-CWDM-SFP, 1570NM, 80KM, SMF, DDM
1002630	SFP-SMF-CWDM-1590NM-80KM	1.25GBASE-CWDM-SFP, 1590NM, 80KM, SMF, DDM
1002631	SFP-SMF-CWDM-1610NM-80KM	1.25GBASE-CWDM-SFP, 1610NM, 80KM, SMF, DDM
1002632-XX	SFP-SMF-DWDM-CHXX-40KM	1.25GBASE-DWDM-SFP, CH. 20-59, 40KM, SMF, DDM
1002633-XX	SFP-SMF-DWDM-CHXX-80KM	1.25GBASE-DWDM-SFP, CH. 20-59, 80KM, SMF, DDM

Last 2 numbers indicate channel number (20-59).