

# Blonder Tongue

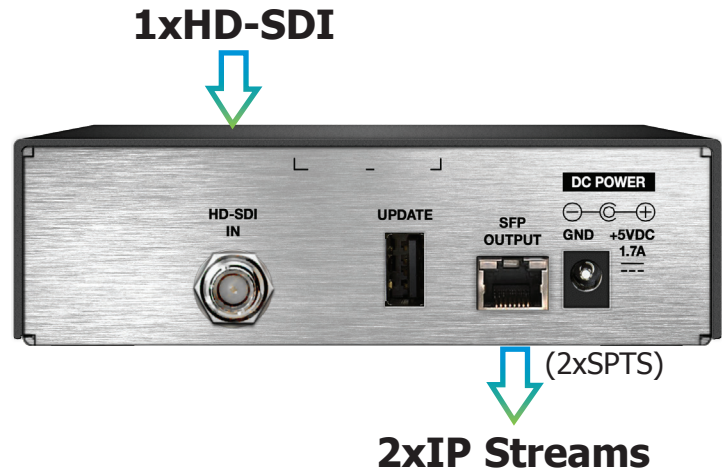
# HDIP

## 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 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 H.264 or MPEG-2 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-4/H.264 and MPEG-2 video encoding
- Encodes an HD and SD stream of the same content in either MPEG-4/H.264 or MPEG-2 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 sold separately*)
- 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.**

Dolby® is a registered trademark of Dolby Laboratories.

Rev: 032018  
Blonder Tongue is ISO 9001:2015 Certified

# Specifications

## Input

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

## Resolutions & Frame Rates

<b>Input Video Modes:</b>	480i (640x480/720x480 @ 30 FPS) 720p (1280x720 @ 60 FPS) 1080i (1920x1080 @ 30, 59.94, & 60 FPS) AUTO-SCAN for Input Resolution
<b>Video Format:</b>	H.264 or MPEG-2
<b>H.264 Profile Support:</b>	Baseline, Main, High

## Alarms/Monitoring/Control

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

## Output

<b>Video:</b>	SFP Port IP SPTS (SFPs sold separately)
<b>Packet Format:</b>	UDP SPTS (1xHD, 1xSD)
<b>Optional Zixi:</b>	UDP transport stream protocol SPTS 1x HD/SD stream

## Audio Options

<b>Encoder Format:</b>	Dolby® Digital, AAC, or MPEG-1-Layer 2
<b>Output Bit-rate:</b>	AC3: 128, 192, & 384 kbps AAC/MP2: 128, 192, 320, & 384 kbps

## General

<b>Dimensions (W x D x H):</b>	7.5 x 1.15 x 3.5 inches (190.5 x 29.21 x 88.9 mm)
<b>Power:</b>	110-120 VAC/60 Hz
<b>Power Dissipation:</b>	20 W
<b>Weight:</b>	1.15 lbs (0.54 kg)
<b>Operating Temperature:</b>	32 to 122 °F (0 to 50 °C)
<b>Storage Temperature:</b>	-13 to 158 °F (-25 to 70 °C)
<b>Operating Humidity:</b>	0 to 95% RH @ 35 °C max, non-condensing
<b>Storage Humidity:</b>	0 to 95% RH @ 35 °C max, non-condensing

## Available SFPs

(Sold Separately)

### > ONE FIBER APPLICATIONS

STOCK #	MODEL
1002680	SFP-SMF-1310nm-TX/1550nm-RX 10km
1002681	SFP-SMF-1550nm-TX/1310nm-RX 10km
1002671	SFP-SMF-1550nm-TX/1310nm-RX 40km
1002672	SFP-SMF-1310nm-TX/1550nm-RX 40km
1002682	SFP-SMF-1490nm-TX/1550nm-RX 80km
1002683	SFP-SMF-1550nm-TX/1490nm-RX 80km

### >> TWO FIBER APPLICATIONS

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
1002670	SFP-SMF-1310-40km	1000BASE-LX SFP, 1310nm, 40km, 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).