



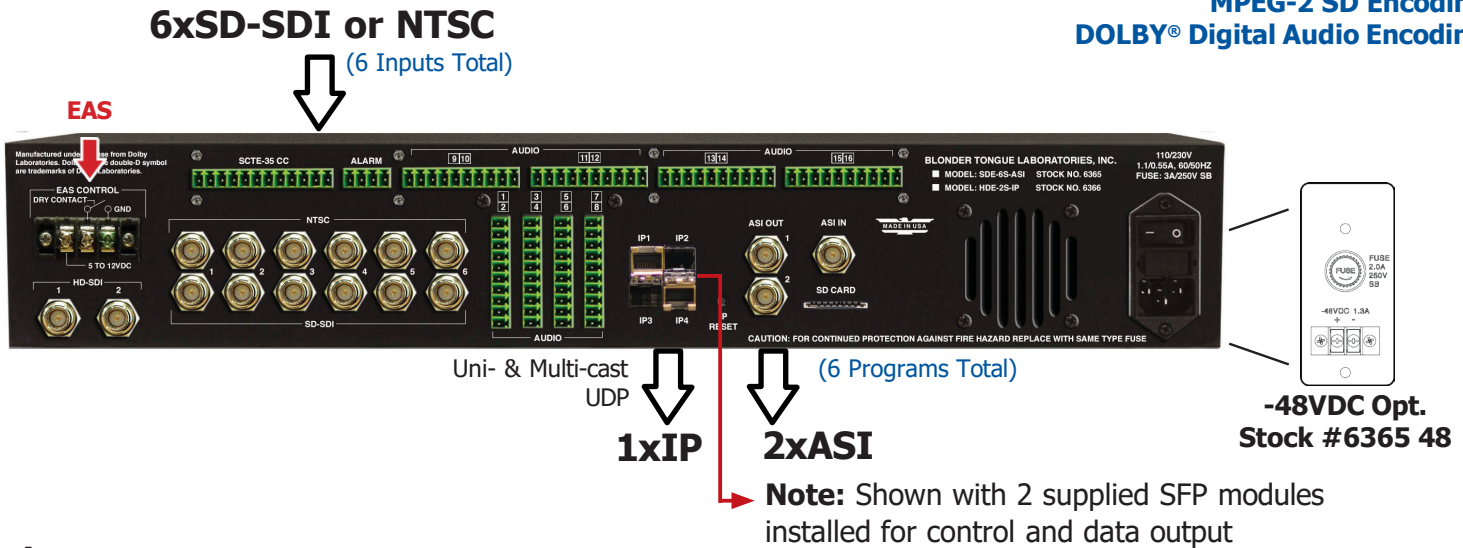
# SDE-6S-ASI

## MPEG-2 SD Encoder/Multiplexer

The **SDE-6S-ASI** accepts up to six (6) SD programs from either 6xSD-SDI and/or 6xNTSC. MPEG-2 encoded outputs are multiplexed into one MPTS for delivering simultaneous output in 2xASI (mirrored), and 1xIP (100/1000Base-T). Ad insertion SCTE-35 compliant queuing messages are detected for each program from either the multiple audio Cue Tone inputs or an insertion contact closure (operator selectable).

**SDE-6S-HD-LIC** is available to upgrade the unit to **HDE-2S-IP** encoder.

**MPEG-2 SD Encoding**  
**DOLBY® Digital Audio Encoding**



### Features

- Accepts up to (6) video programs from any of the following inputs: 6xSD-SDI and/or 6xNTSC
- Simultaneously delivers the following outputs: 2xASI (mirrored) and 1xIP (100/1000 BaseT) via included SFP module
- Provides audio encoding for Primary Audio, SAP (Secondary Audio Program), & Audio Descriptor Service
- Provides user-selectable audio level adjustment of +/- 6 dB in 0.5 dB increments on all analog audio inputs through GUI interface
- Detects ad messaging via SCTE 35 activated by either multiple Cue Tone Audio inputs or upon contact closures (user selectable)
- Supports Closed Captioning EIA-608 and EIA-708
- Supports Real-time Dolby® Digital audio encoding
- Supports Emergency Alert System (EAS)
- Supports user-defined static PSIP configuration
- Supports compressed digital audio pass through for all SDI inputs
- Supports fixed VBR and Stat-Mux video encoding

### Ordering Information

Model	Stock #	Description
SDE-6S-ASI	6365	MPEG-2 SD Encoder/Multiplexer (2 HD-SDI or 8 SD-SDI inputs); 110-230VAC
	6365 48	MPEG-2 HD/SD Encoder with -48VDC Power
SDE-6S-HD-LIC	6366-LIC	Software upgrade to HDE-2S-IP encoder (2 HD-SDI inputs or 8 SD-SDI inputs)

**Made in U.S.A.**

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Rev: 060517 (651233400A)  
Blonder Tongue is ISO 9001:2015 Certified

# Specifications

## Input

<b>SD-SDI</b>	<b>Connectors:</b> 6x BNC <b>Standard:</b> SMPTE 259M <b>Video Resolution:</b> 480i <b>Audio:</b> Embedded PCM and pass-through Dolby® Digital Analog Stereo Balanced Audio
<b>NTSC</b>	<b>Connectors:</b> 6x BNC for Analog Video 8x terminal strips for Analog Audio <b>Standard:</b> Analog Video <b>Video Resolution:</b> 525 lines per frame <b>Audio:</b> Analog Stereo Balanced Audio
<b>HD-SDI</b> (requires software upgrade)	<b>Connectors:</b> 2x BNC <b>Standard:</b> SMPTE 292M <b>Video Resolution:</b> 480i, 720p, & 1080i <b>Audio:</b> Embedded PCM and pass-thru Dolby® Digital Analog Stereo Balanced Audio (SD-SDI)
<b>EAS(Emergency Alert System)</b>	<b>BNC:</b> Video (User-selectable NTSC 1 to 6) <b>Terminal:</b> Audio (User-selectable Audio 1 to 16) <b>Standard:</b> Analog Audio/Video <b>Trigger Mechanism:</b> 5-12 VDC & Dry Contact Closure (Terminal Strip)

<b>ENCODING PROFILE</b>	
<b>Video</b>	<b>Output Format:</b> MPEG-2 MP@ML, ISO 13818-2 <b>Chroma:</b> 4:2:0 <b>Resolution:</b> 480i <b>Frame rate:</b> 29.97 fps (480i) <b>Aspect Ratio:</b> 4:3 <b>GOP Structure:</b> I & P frames (user-selectable) <b>Transport Rate:</b> Variable (user-selectable) <b>Video Rate:</b> Variable (user-selectable) <b>Video Pre-filter:</b> Variable (user-selectable) <b>Color Space:</b> YCbCr
<b>Audio</b>	<b>Output Format:</b> Dolby® Digital <b>Sampling rate:</b> 48 kHz <b>Bit rate:</b> Variable; 96-448 Kbps (user-selectable) <b>Level Adjustment:</b> ± 6 dB, 1 dB increment (user-selectable)
<b>Digital Program Insertion (DPI)</b>	<b>Connectors:</b> Terminal strip for Cue Tone Audio <b>Standard:</b> SCTE 35
<b>Closed Captioning</b>	<b>SD-SDI:</b> EIA-608, EIA-708; (Embedded in input) <b>NTSC:</b> EIA-608 (Embedded in input)

## Alarms/Monitoring/Control

<b>Local Monitoring:</b>	1x Input, 1x Status and 1x Power LEDs
<b>Local Control:</b>	1x DVI Port 1x IP Reset button
<b>Remote Monitoring/Control:</b>	GUI-based menu via Web browser (1x SFP rear-panel port; 10/100Base-T) (SFP included) SD card based SW upgrade (future option)

## Related Products

Model	Stock #	Description
HDE-2S-IP	6366	MPEG-2 HD/SD Encoder/Multiplexer (2xHD-SDI or 8xSD-SDI inputs), 110-230VAC
	6366 48	MPEG-2 HD/SD Encoder with -48VDC Power



## Output

<b>ASI</b>	<b>Connector:</b> 2x BNC (Rear-panel) <b>Format:</b> DVB-ASI <b>Standard:</b> ETSI EN 50083-9
<b>IP</b>	<b>Connector:</b> 1x SFP (Rear-panel) (SFP module included) <b>Standard:</b> IEEE 802.3 100/1000 Base-T Ethernet <b>Network Protocols:</b> UDP, RTP, multicast, unicast, MPTS output

## Baseband Analog Audio Encoding Capability

SD-SDI or NTSC Video Input #	1	2	3	4	5	6
<b>Primary Audio</b>	Y	Y	Y	Y	Y	Y
<b>Secondary Audio</b>	Y	Y	Y	Y	Y	Y
<b>Video Descriptor Audio</b>	Y	Y	Y	Y	Note 1	Note 1
<b>Cue Tone Audio</b>	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
<b>Cue Tone via Contact Closure</b>	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

There are a total of sixteen (16) stereo analog audio encoding engines in the unit. The table above illustrates one example of how this resource may be utilized. In this example all the audio programs are provided as stereo baseband analog inputs. In this example none are provided by digital audio present on the SD-SDI inputs.

**Note 1:** In the example above, a third discrete Audio Encoder input will not be available for video inputs 5 and 6. However, the Secondary Audio for 5 and 6 can be used to provide the Video Descriptor Service instead of being used for a second language input.

**Note 2:** Detects ad insertion messages generated per SCTE 35 from multiple Cue Tone Audio inputs (user selectable).

**Note 3:** Detects ad insertion messages in a preset sequence per SCTE 35 activated by a contact closure (user selectable).

## General

<b>Dimensions (W x D x H):</b>	19.0 x 16.0 x 3.5 inches (483 x 406 x 89 mm); 2RU
<b>Power:</b>	<b>Stock #6365:</b> 110-230VAC, 60/50Hz (Fuse: 3.0A, 250V, SloBlo) <b>Stock #6365 48:</b> -48VDC (Fuse: 2.0A, 250V SloBlo)
<b>Power Dissipation:</b>	100W (MAX)
<b>Weight:</b>	17 lbs (3.6 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