



## THOR BROADCAST

# 1, 2, 4 Channel SDI to DVB-T / ISDB-T RF Modulators and IPTV Streaming Encoders

DVB-T Models: H-1SDI-DVBT-IP, H-1SDI-DVBT-IPLL, H-2SDI-DVBT-IP, H-2SDI-DVBT-IPLL, H-4SDI-DVBT-IP, H-4SDI-DVBT-IPLL




ISDB-T Models: H-1SDI-ISDB-T-IPLL, H-2SDI-ISDB-T-IPLL, H-4SDI-ISDB-T-IPLL



Product Family	Integrated SDI encoder, DVB-T / ISDB-T RF modulator, ASI transport, and IPTV output in one 1RU chassis.	Input Options	1, 2, or 4 SDI inputs using BNC connectors. Supports SD-SDI, HD-SDI, and 3G-SDI up to 1080p60.
Output Options	DVB-T or ISDB-T RF over coax, IPTV MPEG-TS over UDP / RTP / RTSP, and ASI input / output for headend integration.	Applications	Corporate MATV, hotels, campuses, houses of worship, education, stadiums, venues, government, and professional AV.
Network Managed	Browser-based NMS management for RF, bitrate, service, PID, and IP streaming configuration.	Low Latency	Available on IPLL models. End-to-end delay modes of approximately 300 / 500 / 800 ms.

Product page: <https://thorbroadcast.com/product/1-4-sdi-to-dvb-t-rf-modulators-and-iptv-streaming-encoders.html>

MODEL SELECTION - DVB-T AND ISDB-T VERSIONS

Available Models	Input Configuration	Latency
<p><b>H-1SDI-DVBT-IP</b>                      H-1SDI-DVBT-IPLL                      H-1SDI-ISDB-T-IPLL                      (ISDB-T Modulation)</p>	 <p><b>1x HD-SDI 1080p60</b>                      SDI input card configuration with shared RF / ASI / IP chassis platform</p>	<p><b>Low Latency Option</b>                      300 / 500 / 800 ms delay via different operating modes. IP output is typically closer to 800 ms end-to-end because decoding is included.</p>
<p><b>H-2SDI-DVBT-IP</b>                      H-2SDI-DVBT-IPLL                      H-2SDI-ISDB-T-IPLL                      (ISDB-T Modulation)</p>	 <p><b>2x HD-SDI 1080p60</b>                      SDI input card configuration with shared RF / ASI / IP chassis platform</p>	<p><b>Low Latency Option</b>                      300 / 500 / 800 ms delay via different operating modes. IP output is typically closer to 800 ms end-to-end because decoding is included.</p>
<p><b>H-4SDI-DVBT-IP</b>                      H-4SDI-DVBT-IPLL                      H-4SDI-ISDB-T-IPLL                      (ISDB-T Modulation)</p>	 <p><b>4x HD-SDI 1080p60</b>                      SDI input card configuration with shared RF / ASI / IP chassis platform</p>	<p><b>Low Latency Option</b>                      300 / 500 / 800 ms delay via different operating modes. IP output is typically closer to 800 ms end-to-end because decoding is included.</p>

**IPTV Decoder Note:** The IP output can feed Thor H-STB-IP set-top boxes, PCs, digital signage players, or other compatible IPTV receivers. Select DVB-T models for DVB-T / DVB-T2 style terrestrial or MATV systems. Select ISDB-T models for Japan, Brazil, Latin America, and other ISDB-T regions.

**FEATURES AND TECHNICAL SPECIFICATIONS**

**Key Features**

- DVB-T COFDM RF output with QPSK, QAM16, and QAM64 modes
- Optional ISDB-T modulation available on listed IPLLL models
- IPTV output: unicast or multicast MPEG-TS over UDP, RTP, and RTSP
- ASI output with multiplexer cherry-picking and ASI input support up to 120 Mbps
- Any SDI input up to 3G-SDI at 1080p60
- Each encoder independently configured for bitrate and service settings
- Fully network managed through a browser-based NMS interface
- Low latency available: 300 / 500 / 800 ms via different modes
- IP stream output is compatible with Thor H-STB-IP compact IP decoders

**Core Specifications**

Parameter	Specification
Input	3G-SDI / HD-SDI on BNC, 50 Ohm
Supported Resolutions	1280x720p 50 / 59.94 / 60, 1920x1080i 50 / 59.94 / 60, 1920x1080p 50 / 59.94 / 60 (H.264 only)
Video Codecs	MPEG-2 HD 1.5 to 19.5 Mbps, H.264 HD 0.8 to 19.5 Mbps
Audio Codecs	MPEG-1 Layer II, MPEG-2 AAC, MPEG-4 AAC
Audio Sample Rate	48 kHz
Audio Bitrates	64 / 96 / 128 / 192 / 256 / 320 kbps
RF Frequency Range	30 to 960 MHz, 1 kHz step
RF Output Level	15 to 43 dBmV adjustable
ASI Output	BNC connector, 1 to 60 Mbps
ASI Input	BNC connector, 1 to 120 Mbps
IPTV Output	MPTS MPEG-TS over UDP, RTP, RTSP; unicast and multicast
Power Input	100 to 240 VAC auto switching, approximately 20 W
Dimensions / Weight	482 x 300 x 44 mm, approx. 4.5 kg
Operating Temperature	0 to 45 C

## REAL PRODUCT VIEWS

Real product photos for the shared front panel and the 1-channel, 2-channel, and 4-channel rear panel versions.

### Shared Front Panel



### 1 Channel Rear Panel



### 2 Channel Rear Panel

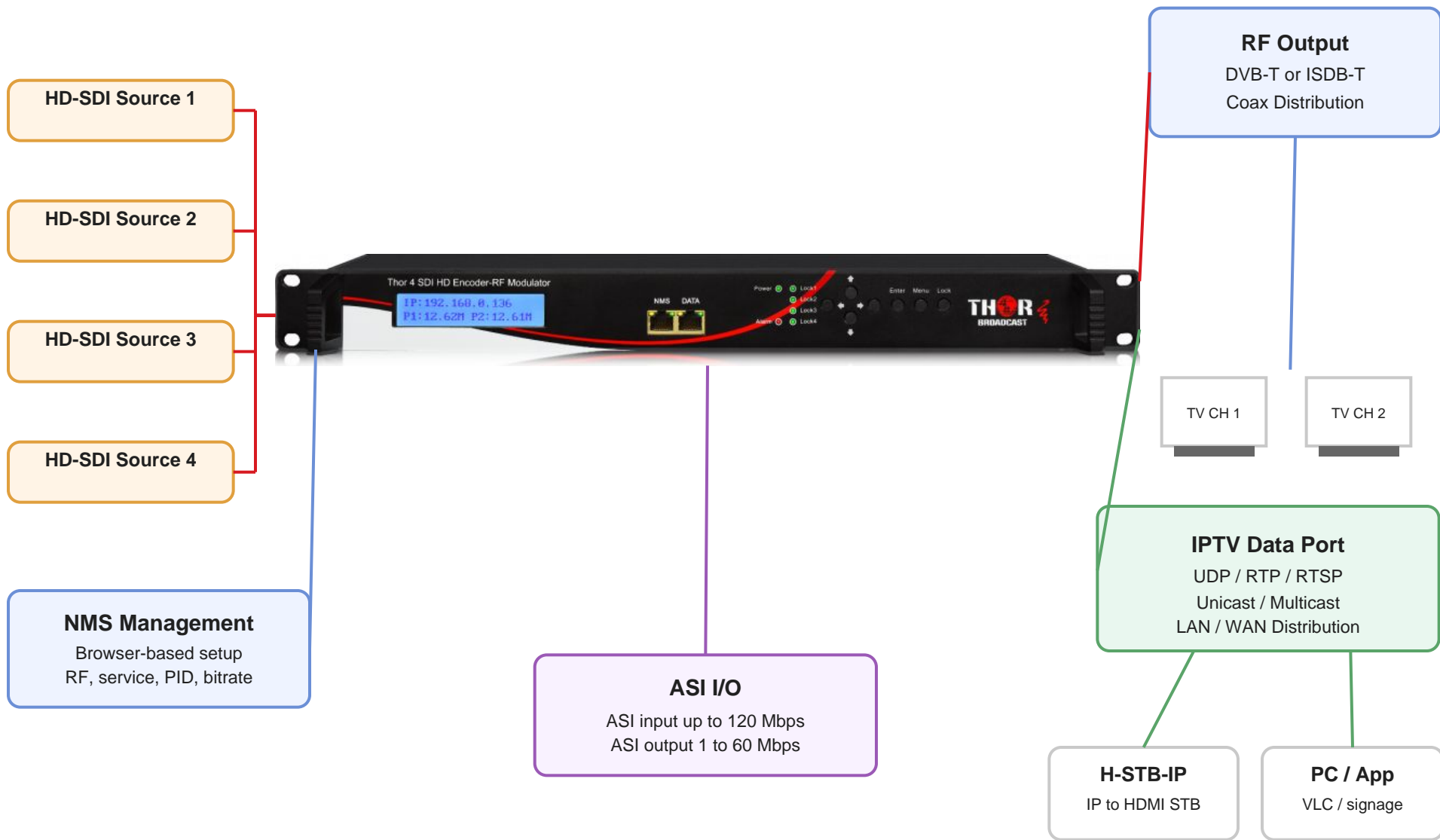


### 4 Channel Rear Panel



APPLICATION DRAWING

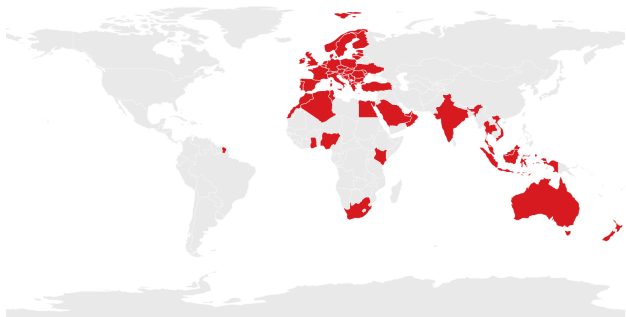
Example signal flow showing SDI inputs, RF output, IPTV distribution, NMS control, and ASI transport integration.



DVB-T AND ISDB-T COVERAGE

**DVB-T / DVB-T2 Regions**

Commonly used across Europe, parts of Africa, Middle East, Asia, and Oceania

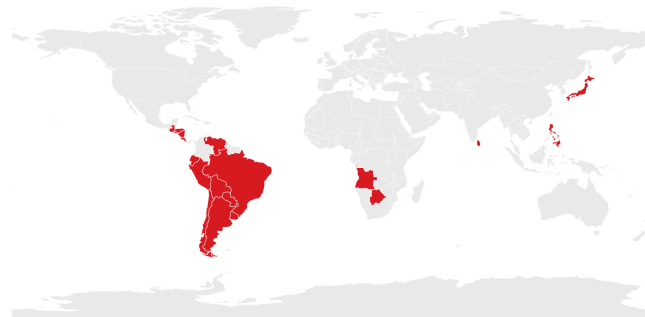


**Representative DVB-T / DVB-T2 countries:**

- Europe: UK, Ireland, Portugal, Spain, France, Belgium, Netherlands, Germany, Switzerland, Austria, Italy, Denmark, Norway, Sweden, Finland, Poland, Czechia, Slovakia, Hungary, Romania, Bulgaria, Greece, Croatia, Slovenia, Serbia, Montenegro, Albania, Ukraine, Moldova, Turkey.
- Other regions: Australia, New Zealand, India, Thailand, Vietnam, Malaysia, Indonesia, Singapore, Egypt, Morocco, Tunisia, Algeria, South Africa, Kenya, Nigeria, Ghana, Saudi Arabia, UAE, Oman.

**ISDB-T / ISDB-Tb Regions**

Common in Japan, Brazil, Latin America, Philippines, and selected markets



**Representative ISDB-T / ISDB-Tb countries:**

- Asia: Japan, Philippines, Maldives, Sri Lanka.
- Latin America: Brazil, Argentina, Chile, Peru, Uruguay, Paraguay, Bolivia, Ecuador, Venezuela, Costa Rica, Guatemala, Honduras, Nicaragua, El Salvador.
- Africa: Botswana, Angola.

**Deployment note:**

The DATA/IP output can be used with Thor H-STB-IP set-top boxes to decode IPTV streams to HDMI at the TV location. Coverage maps are practical planning references; confirm the local terrestrial modulation standard before ordering.

**ORDERING INFORMATION AND NOTES**

**Ordering Information**

Model	Description
H-1SDI-DVBT-IP	1 Channel SDI to DVB-T RF Modulator and IPTV Streaming Encoder
H-1SDI-DVBT-IPLL	1 Channel SDI to DVB-T RF Modulator and IPTV Streaming Encoder, low latency
H-1SDI-ISDB-T-IPLL	1 Channel SDI to ISDB-T RF Modulator and IPTV Streaming Encoder, low latency
H-2SDI-DVBT-IP	2 Channel SDI to DVB-T RF Modulator and IPTV Streaming Encoder
H-2SDI-DVBT-IPLL	2 Channel SDI to DVB-T RF Modulator and IPTV Streaming Encoder, low latency
H-2SDI-ISDB-T-IPLL	2 Channel SDI to ISDB-T RF Modulator and IPTV Streaming Encoder, low latency
H-4SDI-DVBT-IP	4 Channel SDI to DVB-T RF Modulator and IPTV Streaming Encoder
H-4SDI-DVBT-IPLL	4 Channel SDI to DVB-T RF Modulator and IPTV Streaming Encoder, low latency
H-4SDI-ISDB-T-IPLL	4 Channel SDI to ISDB-T RF Modulator and IPTV Streaming Encoder, low latency

**Notes**

- All specifications are subject to change without notice.
- DVB-T and ISDB-T units share the same SDI encoding, ASI transport, and IPTV output architecture; the RF output standard depends on the selected model.
- For decoding IPTV streams to HDMI at the display, Thor recommends the H-STB-IP compact IP decoder set-top box.
- For custom model configurations, firmware, or regional RF planning assistance, contact Thor Broadcast sales.

**Thor Broadcast Contact**

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