

S2 Box 4 Tuners In/4 IPs Out™

Real Time, 1 RU, Embedded Linux® Based, Remotely Manageable, Encoder, H.264 High Definition (up to 720p) Transcoder and Live Streamer with Four DVB-S/S2 Inputs and Concurrent Multi Stream, Multi Resolution, Multiprotocol IP Outputs. Encodes DVB-S and/or DVB-S2 Videos and Audio into a Compressed IP Transport Stream with Various “Wrappers”. Audio Support for MPEG-1 Layer II, MPEG-2 Layer II, MP3, AAC, and AC-3. Ideal Affordable Satellite to IP Gateway for Streaming Video to Remote Sites, Content Delivery Networks (CDNs), or IPTV Compatible Appliances or Players. Supports 4 Transponders.



Features

- Real time satellite to H.264 SD transcoder
- Inputs: One GigE IP input and four DVB-S or DVB-S2 inputs – Simultaneously receives transport streams from up to four satellite transponders
- Input formats: H.264 or MPEG-2
- Input resolution: Up to 1080p
- Input frame rates: Up to 60 fps
- Outputs: Up to four simultaneous H.264 IP streams – HTTP, RTP, or HLS
- Output resolution: Up to 720p
- Output frame rates: Up to 30 fps
- Audio Inputs and Outputs: MPEG-1 Layer II, MPEG-2 Layer II, MP3, AAC, and AC-3
- Can publish streams to cable head ends
- Web-based remote GUI

Applications

- Streaming satellite TV from remote sites to HTTP, HLS, etc. compatible appliances
- Telco TV
- Hotels, Cruise Lines, Universities, Resorts
- Streaming to designated VideoLAN VLC, MPlayer, or Windows Media Player clients, or to Amino™ or other set-top boxes

Overview

The S2 Box 4 Tuners In/4 IP Out is a cost effective multi channel satellite to IP gateway and H.264 transcoder. It receives a mixture of DVB-S or DVB-S2 transport streams from one to four satellite transponders, simultaneously, then transcodes the MPEG-2 streams to H.264 with 720p resolution and provides for choices for protocols, wrappers, and containers. The system is designed to stream the IP output to STBs, iPads, iPhones, content delivery networks, and remote video capture devices.

The S2 Box 4 Tuners In/4 IP Out does the work of multiple integrated receiver decoders (IRDs) with one 1 RU system taking the rack space of several 4 RU systems. While some gateways require a separate transcoder system, our unit does both.



Computer Modules, Inc.

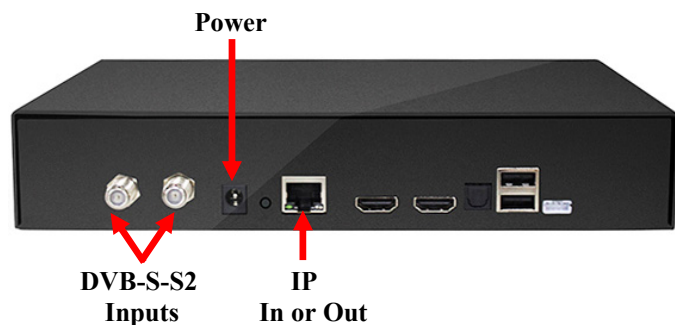
11409 West Bernardo Court

San Diego, CA 92127

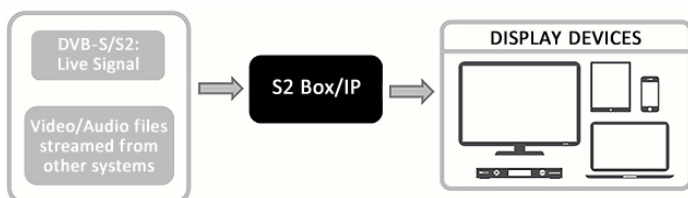
Tel: 858-613-1818 Fax: 858-613-1815

www.dveo.com

Inputs/Outputs



Block Diagram



Specifications

DVB-S/S2 Input

Modulation:	DIRECTV, QPSK (DVB-S), 8PSK (DVB-S2), 16APSK (DVB-S2), 32APSK (DVB-S2)
Inputs:	2 RF and 4 with DiSEqC
Input Level:	-69 ~ -23 dBm
Symbol Rate:	1 to 45 Msps
Frame Rates:	Up to 60 fps
Audio:	MPEG-1 Layer II, MPEG-2 Layer II, MP3, AAC, AC-3

IP Input

IP Input protocols:	HTTP, RTP, or HLS, MPEG-2 or H.264
Audio:	MPEG-1 Layer II, MPEG-2 Layer II, MP3, AAC, AC-3

IP Output

IP Output Protocols:	HTTP, RTP, or HLS
Video:	H.264, up to four 720p channels
Audio:	MPEG-1 Layer II, MPEG-2 Layer II, MP3, AAC, AC-3
Frame Rates:	Up to 30 fps

Compression Format

Video:	H.264 baseline, main and high profiles up to level 5.1
Audio:	MPEG-1 Layer II, AAC-LC, AAC-HEv1, AAC-HEv2 (ADTS/LATM format)

Interfaces

DVB Tuner:	Up to two tuners with DiSEqC2.X
WAN:	100/1000M Gigabit Ethernet
USB:	Two USB 2.0 ports

Physical & Power

Power:	12V, 2A
Dimensions – 1 RU high:	9.45 x 6.89 x 1.7 inches (W x D x H) 240 x 175 x 44 mm (W x D x H)
Weight:	TBD
Conformities:	TBD

System & Software

Operating System:	Linux®
CPU:	STIH416
RAM:	2 GB
Storage:	EMMC 8 GB/16 GB
Pre-installed Software:	Scan-s2, Telnet, SSH, Tvheadend, DVBlasT, Transcode

Ordering Information

S2 Box 4 Tuners In/4 IP Out in 1 RU system



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