

OnRamp S-S2 8Ch/IP™

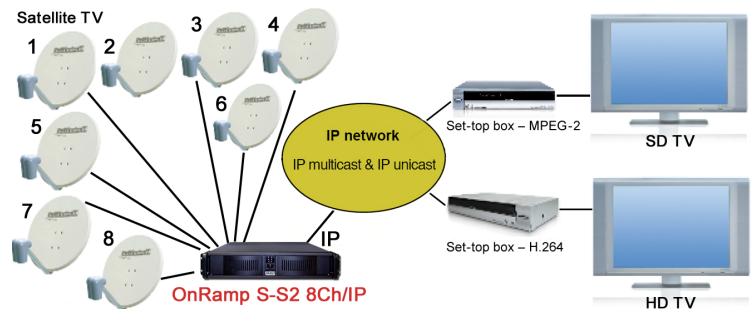
Professional Multichannel Embedded Linux® Based Satellite to IP Gateway that Integrates Eight PC Bus Based Satellite Based Receivers and De-encapsulates and Routes Selected or All Transport Streams to Any MAC Address via IP – UDP, RTP, HTTP, or FTP. Can Work as a Low Cost “Front End” in Small VOD Implementations.

Features

- Encapsulates 200+ transport streams into IP packets
- Input: DVB-S or DVB-S2 – Simultaneously receives transport streams from up to eight satellite transponders
- IP Output: IP – UDP, RTP, FTP
- MPEG-2 inputs and outputs or H.264 inputs and outputs
- Supports SD and HD formats
- PID filtering
- 400 Mbps IP raw output capability
- Transmits PAT, PMT, and PCR information
- Receives and transmits at the same time
- Remote configuration management via Web Browser and Secure Shell (SSH)
- Supports NTSC or PAL
- Based on embedded Linux®
- For system with up to 15 Mbps IP transcoded H.264 output capability, see MPEG Gearbox™ DVB-S-S2 8Tr/IP (16ch)
- Available with optional DC Power Supply

Applications

- IPTV Unicasting, Multicasting, Streaming
- Telco TV
- Front-end to VOD
- Streaming to designated VideoLAN VLC, Mplayer, or Windows Media Player clients



Overview

The OnRamp S-S2 8Ch/IP™ is a professional DVB-S or DVB-S2 to IP Gateway that inputs a mixture of several satellite transponders and outputs them to an IP network. Resulting streams can be viewed with standard IP capable set-top boxes or streaming video software clients such as VLC or MPlayer. OnRamp S-S2 8Ch/IP receives DVB compliant streams, demodulates the requested channels, and forwards these channels using UDP or RTP via IP networks as either IP multicast or IP unicast streams.

The OnRamp S-S2/IP can receive transport streams from one to eight satellite transponders, different satellites, simultaneously. The system supports MPEG-2 input and output or H.264 input and output. Forwarding of PIDs via IP is transparent and does not depend on the content of each individual elementary stream.

Depending on the configuration, it forwards selected programs via IP datacasting; PAT, PMT, video PID, audio PID(s) and PCR information are transmitted. The OnRamp S-S2 8Ch/IP selects all required PIDs and multiplexes the demultiplexed transport stream packets into IP packets.

The unit provides PID filtering of all unwanted traffic, increasing system performance and the number of channels, which can be transmitted per unit.

We also offer a similar system with the capability of transcoding the streams into H.264 format – see our MPEG Gearbox™.



Computer Modules, Inc.

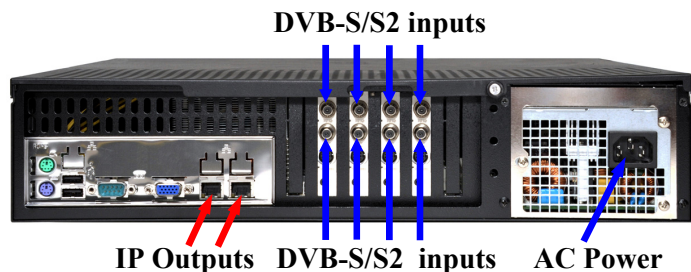
11409 West Bernardo Court

San Diego, CA 92127

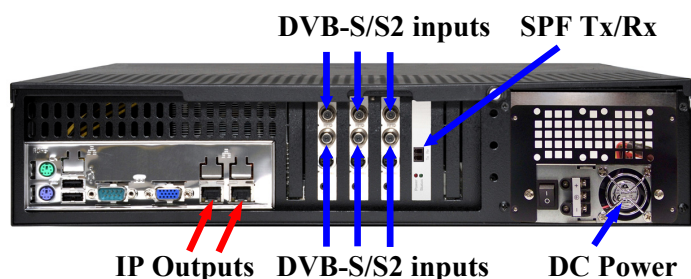
Tel: 858-613-1818 Fax: 858-613-1815

www.dveo.com

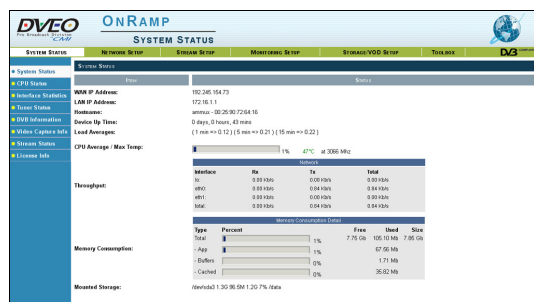
Inputs/Outputs – Standard



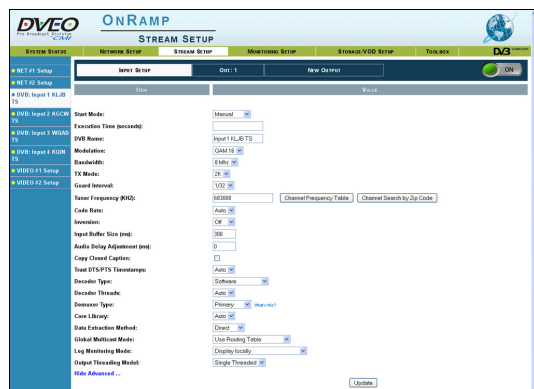
Inputs/Outputs – Optional



Sample GUI's



Status Screen



Input Setup

Ordering Information

OnRamp S-S2 8Ch/IP – 2 RU, 4 or 8 DVB-S/S2 Receivers
 OnRamp S-S2 6Ch/IP/DC – 2 RU, 4 or 6 DVB-S/S2 Receivers with
 DC Power Supply and SPF with LC connector
 OnRamp S-S2 8Ch/IP/ES – 2 RU with encrypted streams option
 TC Option – Transcoding from MPEG-2 to H.264 – see MPEG Gearbox

Specifications

Supported Resolutions – Input and Output

1920 x 1080	720 x 480	480 x 480
1280 x 720	704 x 480	480 x 320
720 x 576	640 x 480	320 x 240

Note: With transcoding option (MPEG Gearbox), lower resolution results in higher transcodes.

Note: Supports closed captions.

DVB-S/S2 Input

Modulation:	DVB-S, DVB-S2
Inputs:	L-Band, K-Band, Ku Band, etc.
Symbol rate:	1 to 45 MS/s
Frequency range:	950 to 2150 MHz, 70 to 1002 MHz
LNB control:	22 kHz, power H/V
Spectral inversion:	ON/OFF

IP Output

Output protocols:	UDP, RTP, FTP, HTTP
Bit Rates:	.1 to 15 mbps per individual channel
Ethernet:	Up to 2 x 1Gb
Type:	IP-multicast, IP-unicast
Max. raw output:	400 mbps

Administration

Access:	Web interface, ssh interface
SNMP:	Monitoring and alerts

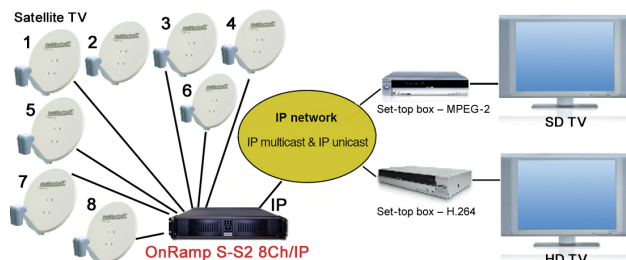
Physical & Power

Size:	19" rack mounted, 2 RU high
Voltage:	85-265 VAC/50-60Hz, 50 watts – Optional DC in
Temperature:	0°C to 50°C
Humidity:	5% to 95% non-condensing
Conformities:	UL, CSA, CE, RoHS
Weight:	25.6 lbs. (11.6 kg)

Transcode Option – MPEG Gearbox DVB-S-S2 8Tr/IP (16ch)

By utilizing an Intel Core i7 6 Core processor we can transcode up to:	16 SD Streams 4 to 6 720p HD streams 3 1080i HD streams 30 ½ D1 streams
Bit Rates:	Multiple H.264 and/or MPEG-2 video streams at different bit rates (.1 to 15 mbps)

Block Diagram



DVEO
Broadcast Division

Computer Modules, Inc.

11409 West Bernardo Court

San Diego, CA 92127

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

www.dveo.com