

Apollo IV™ HDMI 4 Input/DVB-T+IP 2ch

Real Time Multichannel HDMI to DVB-T Modulator with MPEG-2 and H.264 Encoder with 1080i/p or 720p Support. 4 HDMI Channels In, 2 DVB-T Channels Out. Designed for Real Time MPEG-2 or H.264 Encoding of Any HDCP Compliant HDMI Signal and Sending it Out Via Built In Frequency Agile DVB-T Modulator. Output Resolution is 1080i/p or 720p at 16x9. Designed to Present Information to Many Viewers from Computers or 4 HDMI Sources to Televisions! Ideal Product to Present Bus Station Schedules, Class Schedules, or Any Other Information That Originates in a Computer or HDMI Video Source. Supports MPEG-1 Layer II Audio in Via "Dual" Mini DIN Connector. Also works as a 4 Channel HD to IP Encoder.

Features

- Accepts 1080p, 1080i, 720p, and 480i HDMI in
- Encodes HDMI to a high definition MPEG-2 or H.264 stream – 1080p (H.264 only) 1080i, or 720p
- Outputs:
 - Two DVB-T RF outputs (2 carriers combined output – SPTS)
 - Two DVB-ASI outputs
 - One UDP IP port (2 MPTS channels)
- Inputs:
 - Four simultaneous HDMI inputs
 - One ASI input
- One ASI input for re-mux; 1 RF input for RF mix
- Audio Encoding: MPEG-1 Layer II, optional MPEG-4-AAC, optional MPEG-2-AAC
- LCN (Logical Channel Number) support
- Excellent modulation quality $MER \geq 42dB$
- RF Frequency range 30 MHz~960 MHz
- LCD display and front-panel buttons
- Web-based NMS management for remote control
- Firmware updates via web
- Easy to use menus, including inputs, encoding, channel, and RF options
- Lowest cost per channel -- breakthrough price

Applications

- Churches and houses of worship
- In Store demos of DVB-T receivers
- Digital signage on existing CCTV systems
- Hotel and lodging video systems with spare channels



Front



Back



Overview

HDMI has quickly become one of the major standards for uncompressed video in the consumer world. Many input devices support HDMI, such as cameras and recorder/players – and many more are yet to come. DVB-T is the standard for terrestrial broadcast in Europe, Australia, Russia, and parts of Africa. Often people want to share these outputs with many people via DVB-T tuner equipped televisions.

The Apollo IV is a DVB-T modulator with MPEG-2 or MPEG-4 AVC/H.264 HD encoding. It accepts four HDMI inputs and one DVB-ASI input. Outputs are two DVB-T outputs and two DVB-ASI outputs, plus one UDP IP (two MPTS) port.

The signal sources can be from satellite receivers, closed-circuit television cameras, Blue-ray players, computers, etc. The output signals can be received by TVs, set-top boxes, etc. The system is operated via front panel controls or remote NMS web-based management.

You can now create an in-house cable system to play crystal clear HD over your coax cable.

The Apollo IV is also an ideal product to present bus station schedules, class schedules, or any other information that originates in a computer or camera. It is also useful in MDU digital insertion of security cameras for monitoring pools and parking facilities.

This is a great alternative to the more expensive brands.



Computer Modules, Inc.

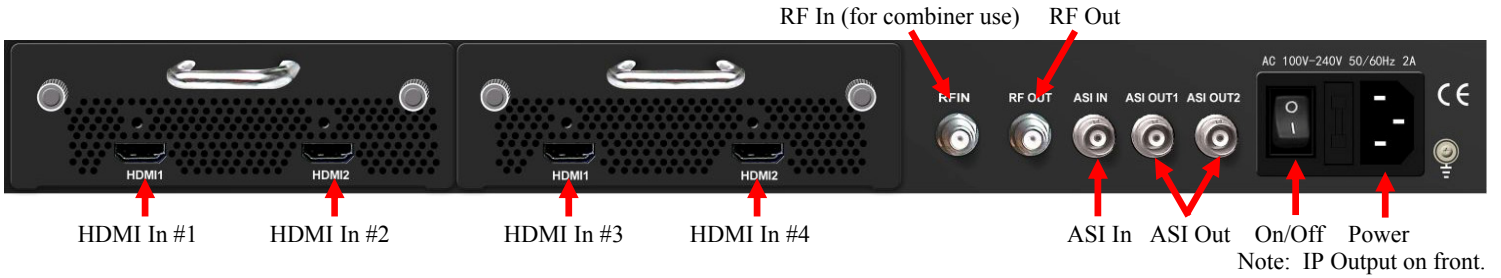
11409 West Bernardo Court

San Diego, CA 92127

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

www.dveo.com

Inputs/Outputs



Specifications

Video Encoding – HDMI

Inputs:	4 simultaneous HDMI inputs
Encoding:	MPEG-2 HD/MPEG-4/H.264 HD
Resolutions:	1920x1080 60p, 1920x1080 50p (for MPEG-4 AVC/H.264 only), 1920x1080 60i, 1920x1080 50i, 1280x720 60p, 1280x720 50p
RF Combiner:	Includes RF combiner

Audio Encoding – HDMI

Encoding:	MPEG-1 Layer II (MPEG-2 AAC, MPEG-4 AAC available as option)
Interface:	HDMI
Sample Rate:	48 KHz
Bit Rates:	64 kbps, 96 kbps, 128 kbps, 192 kbps, 256 kbps, 320 kbps

DVB-T Modulation

Standard:	EN300744
FFT Mode:	2K, 8K
Bandwidth:	6M, 7M, 8M
Constellation:	QPSK, 16 QAM, 64 QAM
Guard Interval:	1/4, 1/8, 1/16, 1/32
FEC:	1/2, 2/3, 3/4, 5/6, 7/8
MER:	≥42 dB
RF Frequency:	30~960 MHz, 1 KHz step
RF Out:	2*RF COFDM DVB-T out (2 carriers combined output); Double output bandwidth
RF Output Level:	-30~-10 dbm (81~97 dbμV), 0.1 db step

System

Local Interface:	LCD Front Panel plus control buttons
Remote Management:	Web NMS
Stream Out:	2 ASI out (BNC) 2x MPTS out (RJ45, 100M) IP (MPTS/SPTS) out (RJ45, 100M)
NMS Interface:	RJ45, 100M

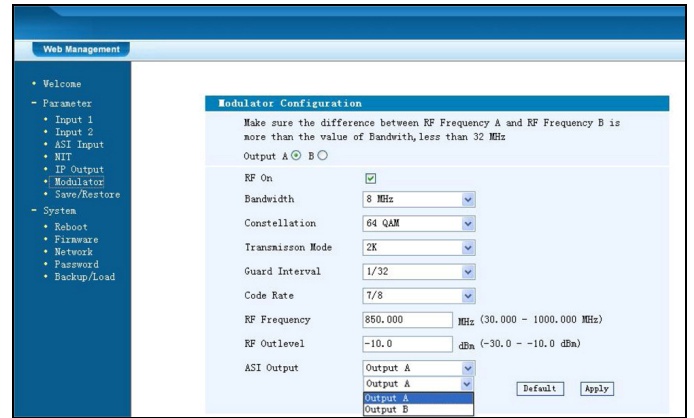
Physical and Power

Dimensions (W x D x H):	18.98 x 15.75 x 1.73 inches (482 x 400 x 44 mm)
Weight:	9.92 lbs (4.5 kg)
Power Supply:	AC 100V~240V
Operating Temperature:	0°C ~ +45°C (32°F ~ 113°F)
Conformities:	FCC, CE, RoHS

Warranty

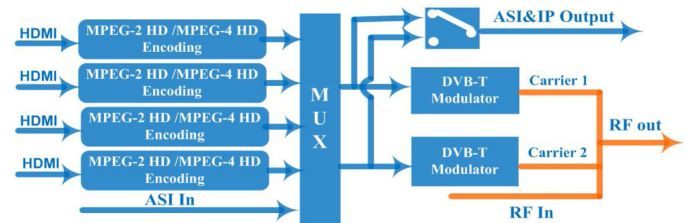
2 Years

Sample GUI

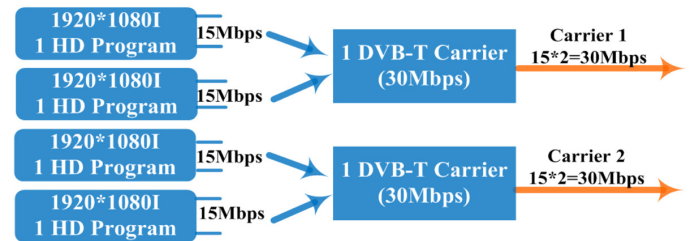


Modulator Configuration

Block Diagram



Application Example



Ordering Info

Apollo IV HDMI 4 Input/DVB-T+IP 2ch
Other versions available: HDMI to ISDB-T, HDMI to ATSC (8VSB), HDMI to DVB-C/QAM



Computer Modules, Inc.
11409 West Bernardo Court
San Diego, CA 92127

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

www.dveo.com