

Apollo IV™ HDMI 4 Input/QAM+IP 4ch
Real Time Multichannel HDMI to QAM or DVB-C
Modulator with MPEG-2 Encoder with 1080i/p or 720p
Support. 4 HDMI Channels In, 4 QAM Channels Out.
Designed for Real Time MPEG-2 Encoding of Any
HDCP Compliant HDMI Signal and Sending it Out Via
Built In Frequency Agile QAM/DVB-C 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.



Front



Back



Features

- Four QAM or DVB-C RF outputs (4 carriers via combined output) on a single F connector
- Accepts 1080p, 1080i, 720p, and 480i HDMI in
- Four HDMI inputs, one RF or IP port
- Outputs: Supports analog stereo, digital optical, and coax audio inputs
- Encodes HDMI to a high definition MPEG-2 or H.264 stream – 1080p (H.264 only) 1080i, or 720p
- Outputs a fully frequency agile QAM 64/256 digital cable channel 2-135
- Amplifies for distribution over an on-site broadband cable system with adjustable output level to -29 dBmV, compatible with all cable format broadband systems
- Front-panel buttons and easy to use menus, including inputs, encoding, channel, and RF options
- Create single-part virtual channels, such as 116, 645 to match Guide channels
- Saves power and rack space using efficient design, fan-free cooling, and compact enclosure
- Powers up in less than 4 seconds, no OS overhead
- Includes built-in RF combiner
- Ships with 1 RU single rack mount and VGA cable
- Meets RoHS safety and California energy standards
- Can be shipped with 4 each Component to HDMI converters for Component to QAM – on request

Applications

- Crystal clear HD video for home theatres, bedrooms, and living rooms
- In Store Demos of QAM receivers
- Digital signage on existing CCTV systems
- Hotel and lodging video systems with spare channels

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. QAM is the universal standard modulation for cable television content delivery. Often people want to share these outputs with many people via QAM tuner equipped televisions.

The Apollo IV is an HDMI to QAM or DVB-C modulator with MPEG-2 HD encoding. It accepts four HDMI inputs and one DVB-ASI input. Outputs are four QAM or DVB-C outputs and two DVB-ASI outputs, plus one UDP IP (4xSPTS) 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.

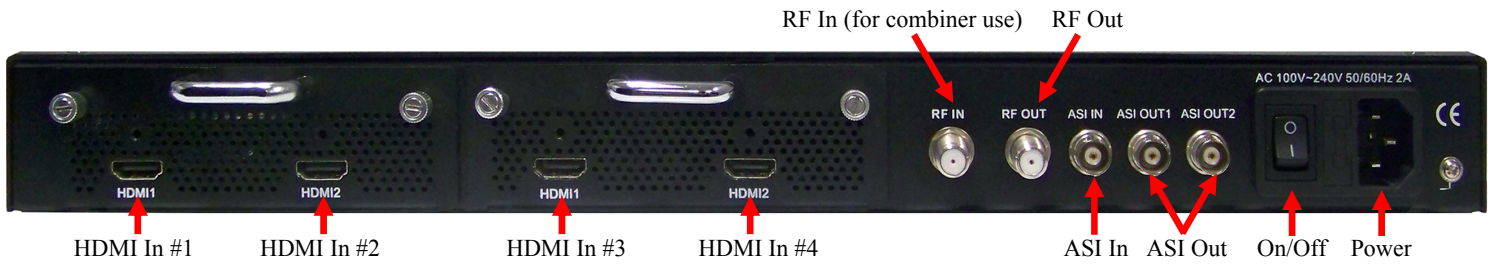
11409 West Bernardo Court

San Diego, CA 92127

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

www.dveo.com

Inputs/Outputs



Note: IP Output on front.

Specifications

Video Encoding

Inputs:	4 simultaneous HDMI inputs
Outputs:	ASI Out (BNC type) 4 QAM SPTS Out (RJ45, 100M) via IP
Encoding:	MPEG-2 HD/MPEG-4/H.264 HD or SD
Resolutions:	1920x1080 60p, 1920x1080 50p (for MPEG-4/H.264 only), 1920x1080 60i, 1920x1080 50i, 1280x720 60p, 1280x720 50p, 720x480 60i, 720x576 50i

Audio Encoding

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

QAM/DVB-C Modulation

Standard:	J.83A, J.83B, J.83C
MER:	≥42dB
RF Frequency:	30~960 MHz, 1 KHz step
RF Output Level:	-30~-10 dbm (81~97 dBμV), 0.1db step
Constellation:	J.83A – 16/32/64/128/256 QAM J.83B, J.83C – 64 QAM/256 QAM
Symbol Rate:	J.83A – 5.000~9.000 Msps adjustable
Bandwidth:	J.83A – 8 MHz BW J.83B, J.83C – 6 MHz BW

System Control

Local Interface:	LCD Front Panel
Remote Management:	Web NMS
NMS Interface:	RJ45, 100M

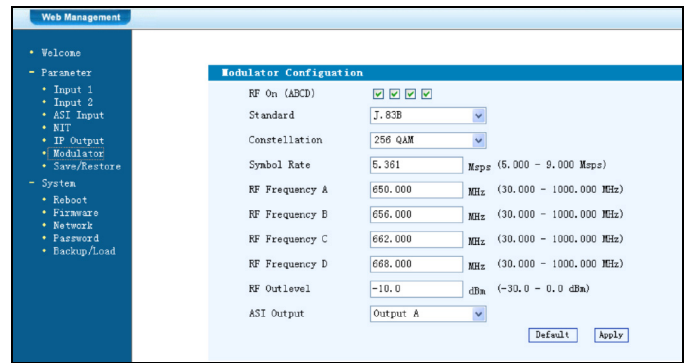
Warranty

5 Years

Physical and Power

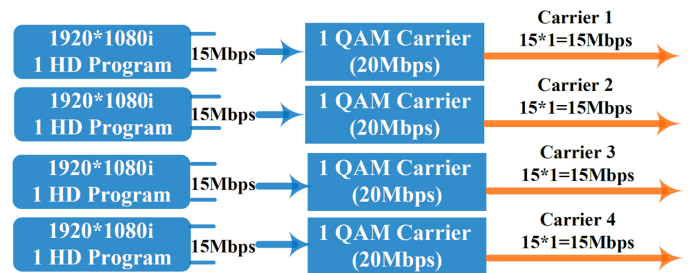
Dimensions:	16.54 x 15.75 x 1.73 inches (W x D x H) 420 x 400 x 44 mm (W x D x H)
Weight:	9.92 lbs (4.5 kg)
Power Supply:	AC 100V~240V
Operating Temperature:	0°C ~ +45°C (32°F ~ 113°F)
Conformities:	FCC, CE, RoHS

Sample GUI



Modulator Configuration

Application Example



Ordering Info

Apollo IV HDMI 4 Input/QAM+IP 4ch
Apollo IV HDMI 4 Input/DVB-C+IP 4ch



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

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

www.dveo.com

© 2015 Computer Modules, Inc. DVEO and Apollo IV HDMI 4 Input/QAM+IP 4ch are trademarks of Computer Modules, Inc. All other trademarks and registered trademarks are the properties of their respective owners. All rights reserved. Specifications are subject to change without notice.