



VeCOAX *ULTRA-8*

8 Channel HDMI To Coax HD Modulator



VECOAX ULTRA-8 is a Eight channels HDMI Modulator to channels to distribute HD Video Over coax with real time perfect quality

Key Features

- Converts up to Eight HDMI video sources into 8 HDTV Channels you can distribute and watch through the existing TV distribution box on All TVs
- HDMI licensed and compatible to any HDMI video source for perfect full digital video quality & sound, with Live - Real Time distribution
- Simple One-Click setup, installs in few minutes anywhere via front panel color display. Any standard ATSC QAM DVBT ISDBT DTMB, Any channel.
- Delivers perfect, real time, video quality & sound up to 1080p and dolby audio, ideal for any Live and HDMI distribution applications
- Plug 'n Play HDMI Video Distribution system, drives directly unlimited TVs with perfect quality at any distance, no other parts need

Description

8 HDMI to COAX HD RF Modulator To Channels

Real Time Live Distribution, HDMI Licensed, 480i / 720p / 1080i / 1080p Full HD Encoder Modulator, Dolby AC3 Audio Encoding

QAM, ATSC, DVB-T, ISDB-T, DVB-C, DMBT Modulation Selectable From Color Display, One-Click setup

PN: VECOAX-ULTRA-8

The VeCOAX ULTRA-8 is a eight channels hdmi to coax digital TV channels hdmi modulator to convert 8 simultaneous hdmi Full HD Video signals from any HDMI video source into eight Full HD HDTV digital television channels you can inject over the existing tv coaxial distribution box and distribute to all television sets in every room at any distance, with real time perfect quality.

The VeCOAX ULTRA-8 comes with the most ultimate sets of features today on the market so you can connect any type of HDMI Video Sources, closed captioning, and set the output to your TVs deciding your channels names and numbers to list, any air or cable mode, all if few clicks from the easy to use front panel color display and keyboard or remote control from your PC.

Installation is very simple, in minutes, by recalling the wanted preset in one click from the many available, you can always customize as you need.

Multiple units can also be installed together to expand the number of distributed HDMI channels, by setting a different ID number on each VeCOAX ULTRA, so our software will automatically set all the parameters for you in one click.

Built with the latest Digital Television Technologies for quiet and non-stop 24/7 operation, the VeCOAX ULTRA-8 maintenance is covered by 5 Year Warranty, and is completely modular, independent channel by channel, zeroing any possible operation down-time, also in mission-critical applications, where a replacement card can be installed in few minutes without removing the system from the operation.

With the VeCOAX ULTRA-8 you have the benefits of a perfect, reliable, and simple to install HDMI video distribution solution to an unlimited number of Television sets, without requiring new cables, special wiring,

nor multiple parts behind each TV, because the VeCOAX ULTRA-8 can drive your TVs directly and in real time without any additional part to install.

Automation Systems can also be implemented by changing the channel on the wanted TV, as well the source control, and the VeCOAX will deliver your signals as you need.

Our units are HDMI licensed and compatible to any HDMI video source.

The VeCOAX ULTRA-8 is the ideal and cost effective solution to distribute any HDMI video signal up to 1080p 60 over COAX to all your TVs, delivering perfect video & sound quality for the best price on the market.

VECOAX

HDMI Over Coax Distribution

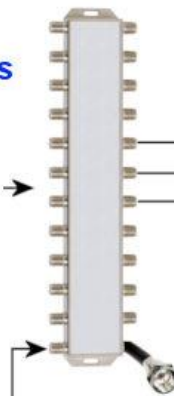


- Easy Installation - Perfect Full HD Quality
- Unlimited Televisions - Unlimited Channels
- Real Time - Any Distance - On Existing Coax

Converts your HDMI to HD TV Channels



TV Distribution Box



Merge with
Local & Cable
Channels
Same Coax



Unlimited TVs - Any Distance



Works Directly With Any TV

Rescan TVs to find your Full HD Channels

Features & Benefits

- **LIVE HDMI** Video distribution over the existing Coaxial Cabling to an unlimited number of Televisions
- **ADVANCED EDID** control to manage any video source from our color display and wanted formats
- **Built-In COLOR BARS** HD reference signal for installation and in case of input video loss
- **EIGHT Simultaneous HDMI** video sources to Eight simultaneous TV channels distribution in a box
- **HDMI digital-perfect quality** to television at any distance up to 1080p 60 Full HD
- **Real Time Super-Fast** processing for Live Real Time Applications
- **Licensed HDMI** inputs - works with any HDMI Video Source
- **One-Click simple** installation by recalling the wanted preset from the color display
- **Add Multiple units** for more channels with one-click setup recalling the machine ID from the display
- **Dolby Digital** sound for best audio experience
- **CC Closed Caption** via CVBS Inputs when not available / active on the native HDMI
- **ALL-MODULATION Modes** are built-in and selectable from the display as:
ATSC USA AIR / J83B USA QAM CABLE / DVBT EU AU NZ CO / ISDBT Br / DMBT / DVBC
No need to change software - all are included and selectable as you need at any time.
- **Up to 8 RF TV channels** out each independent eachother (can work adjacent / non-adjacent full spectrum)
- **Simple Control via Color Display** - one-click presets to recall mode and ID in case of multiple machines installations
- **Also control via computer** remotely and Free-Included Remote Management Software
- **Low Latency is standard** - Real Time Live-Like - 20 milliseconds HDMI input - to - RF Channel Output
- **Selectable Audio format** per channel as AC3 dolby / Mpeg1L2 / AAC
- **Broadcast Video Encoding** processors, one per each channel (not shared) for the ultimate video quality
- **PSIP & VCT** full control to edit Programs Names, PIDs, Channel Numbers, Descriptors in ATSC/QAM USA applications
- **PSI & LCN** full control to edit Programs Names, PIDs, Channel Numbers, Descriptors in DVB applications
- **Built-In output amplifier** up to 45db millivolts to drive directly unlimited TVs up to 1500Ft+ away
- **Excellent MER** exceeds 43db over Rohde Schwarz ETL industry reference instrument
- **Full Digital Multi-RF Synthesizer** with Zero harmonics & spurious, 55db Shoulders, can work adjacent to other TV channels
- **Modular Design for total reliability**, zero down-time, expandable, manageable, flexible.
- **5 Year advanced warranty** - Offers advanced replacements of modules to receive and replace on-site - zero downtime*
- **Simple Installation, For Everyone, Anywhere, In Minutes**

Specification

**All Specifications Subject to Change Without Notice*

TECH SPECS GENERAL

Model Name	VeCOAX ULTRA-8 HDMI
SKU	0649070903653
Power	100-240 VAC 50/60 Hz, 60W max. 30W Typical IEC 60320-C14
Cooling	Dual internal cooling fans with Front inlet and Sides exhaust
Fan dB level	
Temperature/Humidity	+32 F° to +115 F° (0 C° to +46 C°) / 10% to 80% non-condensing
Vibration	NSTA 1A in carton
MTBF	55,000 hours
Compliance	FCC Class A, IEC60065, EN61000, CE, RoHS, RCM C-Tick
Enclosure Type	EMI Shielded Metal
Mounting	In-Rack Mounting with 19" Rack Ears adapters included, 1RU high
Enclosure Dimensions	1.72 in. (H) x 19 in. (front external rack ear to ear dimension) x 12.5 in. (D)
System Weight	12.47 lbs. (5.6 kg)
Carton Dimensions (Individual)	4.25 in. (H) 30.875 in. W 14.015 in (D); 108 mm (H) 785 (mm) W 356 (mm) (D)
Shipping Weight	15.1 lbs. (6.85 kg)
Warranty	5 years
Reliability	Channel-by-Channel 100% modular for zero downtime 24/7 Operation
System Maintenance	Modular Design allows on-site replacement of any encoder modulator channel card without removing the system from site

INSTALLATION

Local Control	Easy-to-use front panel control with intuitive Color Display - No need to connect a computer to install
Remote Control	Via PC and provided Management Software
One-Click Presets	Simple pre-configured set ups with direct one-click recall from the front color display
TV Standards	One-Click switch between USA QAM CABLE / USA ATSC AIR / DVBT eu au nz co / ISDBTb / DVBC / DTMB / J83A J83B J83C
HDMI Inputs	Licensed HDMI inputs compatible to any HDMI Video source
Coaxial Output	Built-In Amplifier up to +45dB millivolts to drive unlimited TVs directly up to 1500Ft away without need to re-amplify
Multi-Units	One-Click recall of pre-configured setups for multiple machines (machine 1 / 2 / 3 / 4.. / 10) Rapid Installation

VIDEO INPUT

HDMI	8 ports of Licensed HDMI input - compatible to any HDMI Video Source up to 1080p resolution
HDMI Version	Compatible to any HDMI source including HDMI 2.0 (Max input resolution is 1080p 60)
EDID Control	Advanced EDID control compatible with any HDMI Video source
AUTO Detection	Auto frame-rate input switching
CC Closed Caption	EIA/CEA-608 captions over composite video input

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Video Resolutions	480i / 480p / 576i / 576p / 720p / 1080i / 1080p (AUTO & EDID Controllable)
Frames Ratio	23.97 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 FPS
Aspect Ratios	16:9 / 4:3 / Film mode detection (3:2 pull-down)

AUDIO INPUT

HDMI AUDIO	Any HDMI Embedded Digital Audio
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COLOR BARS

TEST GENERATOR	Built-In Broadcast HD Monoscope Test Pattern Generator for plug 'n play installations and input signal lost detection
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VIDEO ENCODER

Encoder Video Profile	MPEG2 HD: ISO13818-2 Main Profile @ Main Level (SD) MPEG2 HD: ISO13818-2 Main Profile @ High Level (Full HD up to 1080p ENCODING)
Encoding Mode	Interlace & Progressive encoding support
Video Processing	Extensive video pre-processing help get the best picture whatever the source
Processors Per Channel	One Dedicated Broadcast Encoder Chipset per each channel (8 total) for maximum Quality
Video Processing	Extensive video pre-processing including Noise reduction and Resolution changing
Encoding In-Out Latency	20 milliseconds HDMI input to RF output in Low Latency mode - LIVE Application Mode
Traffic Shaping	Triple Motion Estimation Look-Ahead Statistical Variable Bitrate
Video Encoding Data Rates	VBR Variable, 10 Mbs - 30 Mbs per channel depending from the selected TV Standard
Color Profile	4:2:0 Broadcast Grade Sampling
GOP Size	15
PCR Precision	Broadcast-Grade Accuracy

AUDIO ENCODER

Channels	1 x stereo audio channel processing - Dolby Digital® (AC-3) - Encoding rates from 56 kbps to 640 kbps
Audio Formats	- MPEG-1 Layer II Audio Encoding Standard Encoding rates from 32 kbps to 384 kbps - AAC Advanced Audio Coding
Audio Video Sync	Automatic Audio Video frame by frame synchronization with Time Stamp

TRANSPORT STREAM

PIDs Numbering	Full Control to match any specific cable provider or application Needs
Descriptors	Full Control to set Programs Names / Network / Provider
VCT Numbers	Full Control to set Major / Minor Program number per each channel
LCN Numbers	Full Control to set the Program number per each channel
Program Information	Automatic PSI (DVB) and PSIP (ATSC QAM) for the selected TV mode

MODULATOR

Modulator Type	Broadcast DDS Direct Digital Synthesizer - Direct to target frequency out
Number of DDS	One per each channel - Independent

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Carriers Span	Full Spectrum Adjacent and/or Non-Adjacent
Frequency Range	Frequency Agile Full-Spectrum 30 Mhz to 960 Mhz @ 1 KHz Steps
Channels	Any Channel Number is supported - Any TV Standard
Modulation Standards	Built-In, Selectable from Display: - USA QAM CABLE J.83B - any 256 & 64 modes - USA ATSC AIR 8VSB - Brazilian ISDBTb Terrestrial - DVB-T eu au nz co Terrestrial 6 / 7 / 8 Mhz BW World Wide - DVB-C Cable - DTMB Terrestrial All standards are built-in and changeable in one click from the display No need to load any software or for a different model Our unit can operate World-Wide with any existing TV set
Output Power	+45 dBmV typical
Output Level Adjust	+15 to +45 dBmV digitally fine-adjustable per each carrier/channel
MER	Better than >43db Measured on Rohde Schwartz ETL Test Set
Per Carrier Shoulders	Better than >55dB Measured on Rohde Schwartz ETL Test Set

CONTROL SET UP

Front Panel Color Display	Easy To Use full control via Color Display & Keyboard with built-in presets to recall in one click Each preset can be customized as needed, changing names, numbers, etc. Custom Presets can be saved & recalled by connecting a Remote Control computer
USB & NETWORK	- Plug 'n Play Native USB computer control - no need to configure any ip on the computer at installation - IP Network control accessory available to control one or multiple units from anywhere over IP

AUTOMATION

Integrations	Compatible with any Automation, set channels numbers and names, auto-detects formats & resolutions changes on the fly. Then Usually the Automation controls the sources and the destination TVs to select the channel to watch as there is no need to change the modulator settings at any time. Easy To Install, Simple to Operate, Reliable, Cost-Effective, Real-Time with no maintenance required.
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