

VeCOAX-DIN HDV

Compatible with any HD TV

Universal FULL HD Digital Video Modulator



HDMI[™]
HIGH DEFINITION MULTIMEDIA INTERFACE

DVB T HD
DVB C HD
QAM HD
ATSC HD
ISDB T HD



Wall Mount



Rack Mount – 8 Modules



Turn your HD Video Signals into a Real Digital RF

and broadcast to all of your HD TVs via the antenna coax cable

- ✓ Full HD Single Channel HD Modulator with selectable HDMI and Analog HD/SD in
- ✓ Perfect HD Picture Quality, same as the original
- ✓ **MPEG-2 HD** for total compatibility to any new and old HD TV
- ✓ Low Delay, perfect for any application and LIVE distribution
- ✓ Noiseless, Cold operation, quality components, for real non-stop use
- ✓ Compact size, Installs Anywhere, Wall Mount – Desktop – Rack
- ✓ RF out for DVB-T – DVB-C – US Clear QAM – ATSC - ISDB-T
- ✓ **5 YEARS of warranty**
- ✓ **Best Quality & Best Price on the Market !**



Your HD Signals Anywhere – Simple & Easy



Security



Hard Disk / Internet



Media Players



Satellite

VeCOAX **DIN**-HDV

HDMI™
Input



Mpeg2 HD compatible with ANY TV

DVB ATSC
DVB ISDB
QAM

Full HD
1080



Easy Distribution sharing the existing Antenna Cable

Based on the Newest HDTV Broadcasting technologies, the VeCOAX-DIN converts your HDMI Video Signals into a real HDTV digital channel you can inject straight to your existing antenna coax cable also from a local antenna wall-socket, so all the TVs connected to the same coax cable will receive it as it would be just another standard HDTV program. Up to 1200 (500 meters) Feet of coax cables can be driven with no need to re-amplify.

MPEG-2 HD - The world industry standard for the best compatibility

The VeCOAX-DIN is based on the MPEG-2 HD technology, which is the MAIN STANDARD Adopted in America, Canada, Australia , Europe, South Korea, Japan, etc., so the VeCOAX DIN can be received by any existing, older and newer Television sets, with absolute picture quality. (many TVs does not support MPEG4) Should you need SD-ONLY resolutions, please consider our VeCOAX-DIN-SD

LOW DELAY

VeCOAX DIN has 170 milliseconds only of delay, so it is the perfect solution for any LIVE Application where no latency is wanted as in disco bars, race tracks, live stage screens, pubic events, sports, etc.

HDMI Inputs for the BEST FULL HD PICTURE QUALITY

VeCOAX-DIN is based on pure Hardware Broadcast-Grade chips, so the quality is always the best, same as the original, full frame, no compromises, perfect on Sports, High Motion Video, Text Crawls in Digital Signage, and any other content.

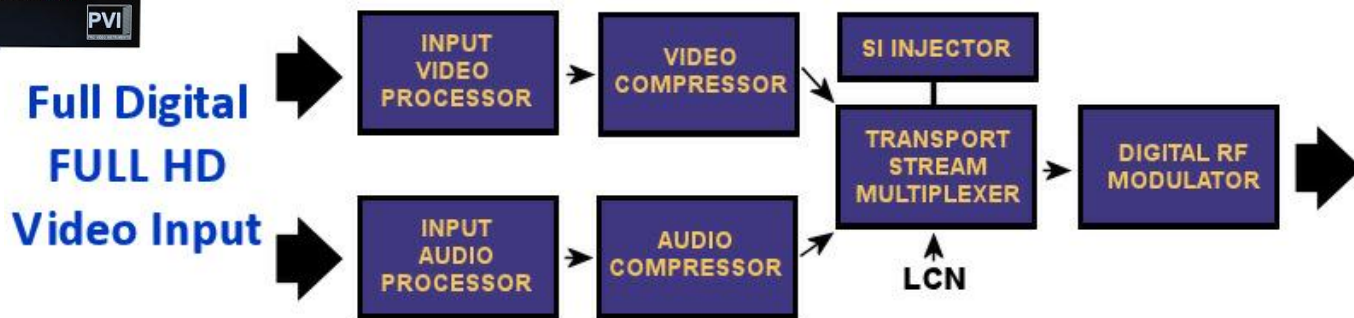
At a Glance

- ✓ **HDMI input for the perfectness of picture quality and one simple cable to connect video sources**
- ✓ **MPEG-2 HD encoding Total compatibility with any existing TV and the best picture quality, same as the original**
- ✓ **Low Delay 170 milliseconds only ideal for any application**
- ✓ **Noiseless – Fanless**
- ✓ **Wall mount / Desktop**
- ✓ **Rack adapter for 8 Modules**
- ✓ **Mix to the existing antenna Coax Cable**
- ✓ **Infrared Remote Control Repeater (option)**

Perfect Integration & Compatibility



BLOCK DIAGRAM



Save on Cables & Adapters

VeCOAX-DIN works sharing the existing antenna coax cables to all of your TVs, so there is no need to wire new cables. Moreover, being MPEG2 HD, the VeCOAX-DIN can be directly received by any new or old TV without the need of any local adapter and you'll be able to switch between regular programs and the VeCOAX ones seamless using the standard TV's remote controls, avoiding multiple Remotes. Where needed, our optional IR Infra-red over coax extender kit allows you to control all the Master room video sources and players from any room, using simple and cost effective industry standard programmable remote controls or sleek and hi-tech tablets.

Connect to Any Video Source

The VeCOAX-DIN comes with all possible inputs, including HDMI, HD component, Composite, and analog Audio, so you can connect any possible device and combination, today and tomorrow.

Thanks to its **LOW DELAY** video encoding and **instant-sync technology**, you can also use a Video Switcher in front of its inputs, and switch for example multiple HDMI sources to the same VeCOAX-DIN module, also controlling everything from each remote room.

Using one VeCOAX DIN you could switch between your satellite or cable box, your security cameras, your media player , and more..

Unlimited Applications :

HD entertainment, HD surveillance, Private Homes, Condominiums, Sport Bars, Restaurants, Lounges, Clubs, Discos, Resorts, Hotels, Malls, Convention Centers, Race Tracks, Hospitals, Airports, Theaters, Live Events, Motor Yachts, Cruise Ships, Corporates, Schools, Campus, In Store TV, HDTV Distribution, Info Channels and Digital Signage, Low Delay full HD Monitoring, Coax Broadcasting, and your...



Key Benefits

- ✓ No Needs to wire new cables works and share the existing antenna coax cables, easy
- ✓ Direct reception on any Existing HD TV without the need of any extra adapter
- ✓ Drives up to 1200 Feet (500+ meters) of existing coax cables without the need to Re-Amplify.
- ✓ **HDMI input for TRUE FULL DIGITAL Full HD picture quality and resolution**
- ✓ Output can be set to any free RF channel, also adjacent to other
- ✓ **5 YEARS of warranty**
- ✓ USA and Europe Technical centers for the best world-class Free tech support and services



The Perfect choice, Reliable & Affordable



The VeCOAX-DIN is available with different RF output standards for every world-wide country, and is compatible to your existing TVs thanks to its MPEG-2 HD video compression technology for the very best video quality and standard choice of all the major broadcast stations world-wide. The VeCOAX-DIN comes standard with all possible inputs, including HDMI and **5 YEARS of warranty through our World-Class Free Tech Support centers in USA and Europe**

Video Input

Standard Video Input Interface

HDMI

- HDMI 1.4 Full HD Input
36-bit color depth
- Broadcasting industry standard resolution 1080i / 720P
(please note most TVs does not support 1080p when receiving from the Antenna HD tuner)
- HDMI Audio Stereo/Surround
- Number of inputs depends by model

Computer DVI

- DVI Digital via DVI-HDMI Cable
- VGA/XGA/SXGA/WSXGA/UXGA
- 59,94 / 50 Frames/Fields
- Audio from L/R inputs

HD-SD COMPONENT

- YPbPr
- 1080p/1080i/720p HD formats
- 576i / 480i SD formats
- One stereo L/R unbal audio in

SD AV CVBS

- Composite CVBS video input
- 576i / 480i formats
- One stereo L/R unbal audio in

Audio Input

Standard Audio Input Interface

HDMI

- HDMI Audio Stereo/Surround

HD-SD COMPONENT

- One stereo L/R unbal audio in

SD AV CVBS

- One stereo L/R unbal audio in

Video Encoders

Video Encoding profiles per each channel

- Mpeg-2 HD
- HD MP@HL 4.2.0 Standard Broadcast
1920x1080i, 1280x720p
- SD MP@ML 4.2.0 Standard Broadcast
576x720i, 480x720i
- Low Delay professional encoding
170 milliseconds only from av input to the RF output
Our Low Delay Is compatible to any TV and also perfect for any Live application as theaters, clubs and discos, live events with almost no delay between the live and distributed

Compression Modes per each channel

- Broadcast-Quality Hierarchical motion estimation
- VBR Statistical Multiplexing
- Also CBR Mode
- 4 Mbps to 25 Mbps
- User defined Program Name, Service Provider, program number, and other information
- User defined PIDs

Sync to Video Time

- Encoder is always encoding, so there is almost no delay between the cable connection or signal switch and the start of signal transmission, as it is always transmitting.
- Also when changing source and resolution the encoder is always encoding, so you can watch your changes on the TV screens live
- Boot Time from totally off is approx. 10 seconds

Audio Encoder

Audio Encoding profiles

- Mpeg-1 Layer II – All Modes
- Surround pass-through

Optional Audio formats

- AC3-Stereo (opt- AC3)

Channel Names & Data

Program Name

- User editable Program Name
This is the name that will appear on your TVs

Network Name

- User editable Network Name
This is the name that will appear on your TVs

Channel number

- User editable Channel Number
This is the destination memory number your TVs will try to automatically store this channel to.
In case of conflicts with other existing programs, most TVs will prompt for conflicts decision (depend solely by the TV model and its software)

Specifications

RF Modulator Out

DVB-T Version (version T)

- DVB-T Standard DVB ET300744
- Frequency range:
30 to 1000 MHz @ 1 KHz steps
- Channel Bandwidth : 6/7/8 Mhz
- RF IN – built-in Mixer
- RF Out Level: Adjustable
from -10dBm to -30dBm
- Impedance : 75 Ohm (50 opt.)
- MER: Professional-Grade >47 dB
- Spectrum Shoulders: 55 dB for
perfect adjacent-channel operations
- Out Filter: -70 dB of Harmonic
and spurious suppression
- DVB-T modulations: QPSK, 16QAM,
64QAM
- FFT: 2K / 8K mode
- Guard Intervals: 1/4, 1/8, 1/16, 1/32
- Code Rates: 1/2. 2/3. 3/4. 5/6. 7/8

DVB-C Version (version C)

- DVB-C Standard DVB ET300429
- Frequency range:
30 to 1000 MHz @ 1 KHz steps
- RF IN – built-in Mixer
- RF Out Level: Adjustable
from -10dBm to -30dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for
excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and
spurious suppression
- - ITU-T J.83 A/C (Europe/Japan)
- - 16/32/64/128/256 QAM
- Any MegaSymbol

CLEAR QAM North American (version Q)

- ITU-T J.83 Annex B QAM-B
- PSIP descriptors edit and Injection
- Frequency range:
30 to 1000 MHz @ 1 KHz steps
- RF IN – built-in Mixer
- RF Out Level: Adjustable
from -10dBm to -30dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for
excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and
spurious suppression
- - 64/256 QAM
- Any Mega Symbols

RF Modulator Out

ATSC 8VSB (version A)

- North American ATSC 8VSB
- PSIP descriptors edit and Injection
- Frequency range:
30 to 1000 MHz @ 1 KHz steps
- RF IN – built-in Mixer
- RF Out Level: Adjustable
from -10dBm to -30dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for
excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and
spurious suppression
- Out Filter: -70 dB of Harmonic and
spurious suppression

ISDB-T (version i)

- ISDB-Tb South American
- Frequency range:
30 to 1000 MHz @ 1 KHz steps
- RF IN – built-in Mixer
- RF Out Level: Adjustable
from -10dBm to -30dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for
excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and

Control

Full Local Control/Setup

- Instant Access to all fetures from the
local Keyboard and Large Display,
without the need for a PC.

Remote Control

- Via standard ip from any PC, with
security Login.

Physical and Power

Power - 90 to 240 VAC 50/60 Hz - 16 Watts
through external power supply
with safety-lock professional connectors.

Can also be DC operated with a standard
12 Volts DC 2A power supply

Cooling - Fanless - Noiseless

MTBF - 40,000 Hours 24/7 non-stop

Max Dimensions 490x300x44.5 millim.
(19.2 x 11.9 x 1.75 inches)

Weight - 3,5 Kilograms (7 lbs)

Operating Temperature

-10°C to 50°C (14°F to 122°F)

Relative Operating Humidity

10% to 90% (Non-condensing)

Compliance

EN55022, EN61000-3-210, EN61000-3-310,
EN55024, CISPR22, EN60950-1, IEC60950-1
UL60950-1, UL60065, FCC Class B
Warranty - 5 Years Registering the product



VeCOAX **DIN-HDV**

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Ordering Information

Ordering Information



VeCOAX DINx-HDV
Single Channel HD/SD
selectable multi input Modulator



DUAL & QUAD HDMI channels
also available
See <http://vecoax.com/din.pdf>
specific brochure



Optional DIN-RACK rack mount
frame adapter for 8 VeCOAX DIN
32 channels in 8RU space

VeCOAX-DIN-HDV - MPEG2 FULL HD MODULATOR

VeCOAX-DINx-HDV 1x Selectable HDMI/YPbPr/CVBS > to > HD/SD RF Channel

OUTPUT TV STANDARD

change the above x letter with one of the following RF Output option:

T for DVB-T RF out
C for DVB-C RF out
Q for J.83-B US Clear QAM RF out
I for ISDB-Tb RF out
A for ATSC 8VSB RF out

ACCESSORIES

- DIN-RACK - rack frame adapter, Installs up to 8 modules

Have a question? Please contact us at

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