

VeCOAX-T4

HD Multi-Video Distribution made EASY



Turn Four HDMI Signals into a real digital RF
and broadcast to all of your HD TVs via the antenna coax cable

- ✓ *VECOAX-T4 with 4X HDMI 1080p / 1080i / 720p Full HD Video inputs*
- ✓ *Quad independent channels operations*
- ✓ *Easy HD distribution to all TVs via the Antenna Coax Cable*
- ✓ *RF out for DVB-T – DVB-C – US Clear QAM – ATSC - ISDB-T*
- ✓ *Also IPTV output and ASI in Remux + ASI out*
- ✓ *Full Local control via Display & Keyboard or Remote PC*
- ✓ ***Lowest Cost per channel - Breakthrough Price !***



Enjoy TRUE FULL-HD Quality Everywhere



Rear panel picture is for reference only and might change without notice depending from selected model and options. Rack Version looks different

The VeCOAX T4 : convert FOUR HDMI HD Videos into for broadcast over coax to unlimited standard HD TVs

Why VeCoax-T4 is the solution ?

VeCOAX-T4 is the perfect, final and affordable solution to distribute Quality Full-HD Multi-Video to unlimited standard HD Televisions without requiring any special adapter on each TV nor rewiring with new cables, but using the standard antenna coax cable.

Simple Distribution via the Antenna Cable

Based on the DVB/ATSC Broadcasting technologies, the VeCoax-T4 converts FOUR independent HDMI videos and stereo or surround sound into a real digital RF frequency you can inject straight to the existing cable network or broadcast on-air, so any HD TVs connected to the same coax network or within the coverage area will receive it as it would be just another FOUR standard broadcasting programs. Each HDMI input is independent and can operate at the same or different resolution from the others.

True HD Full-Quality on all your HD TVs

VeCOAX-T4 does not compromise with your quality of picture, thanks to its broadcast-grade processors that captures and distribute your Full-HD contents with almost no-delay and no flaws, perfect on Sports, High Motion Video, Text Crawls in Digital Signage, and any other content.

Multiple Programs

VeCOAX-T4 RF output can be set to any VHF or UHF channel, with selectable world-wide standards, coexisting with any other RF and channels already on the same Coax.

Multiple units can be used to broadcast up to the wanted number of HDTV programs through the same Coax Cable to all your TVs.

Connects to any Video Source

VeCOAX-T4 is compatible to any Player, Satellite and Cable HDTV set top box, DVI and HDMI computer output, USB Media Player, HD CCTV camera system, Home & Building Automations, and any other device with HD or SD digital or analog Audio/Video Outputs.

HDMI inputs makes this converter suitable for pro applications where perfectness of HD Picture Quality is most wanted.

Easy Setup and Control

VeCOAX-T4 can be totally controlled via the local Display and Keyboard or via our NMS software, included

At a Glance

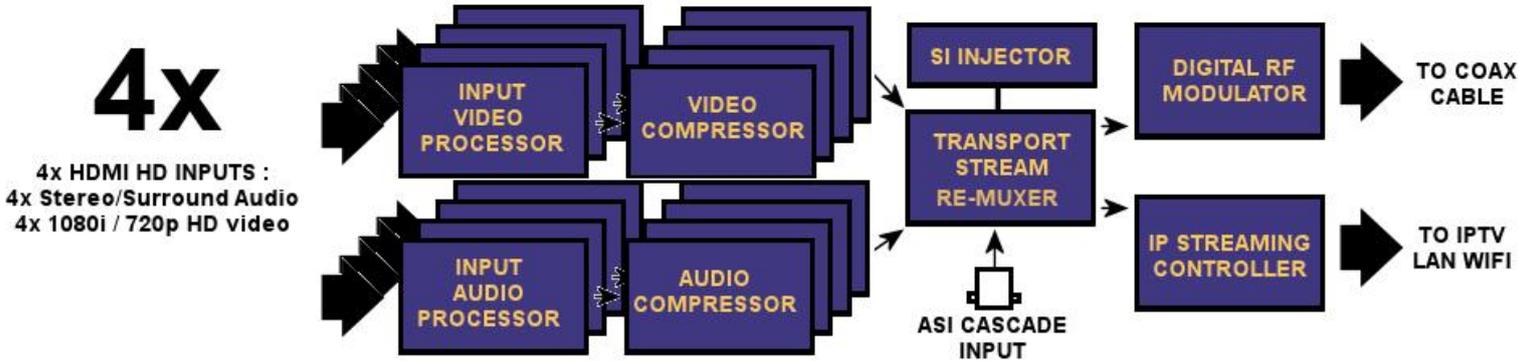
- ✓ **FOUR** HDMI inputs
- ✓ **1080i / 720p** Full HD
- ✓ **Available Versions for DVB-T / DVB-C / QAM / ATSC / ISDBT RF Output**
- ✓ **VHF/UHF out with LCN**
- ✓ **RF Mix IN / RF Mixed out**
- ✓ **ASI in / out with remux**
- ✓ **IPTV Streaming out**
- ✓ **PSI-SI full DVB editor**
- ✓ **Control via LCD/Keyboard**
- ✓ **Also Remote Control NMS**
- ✓ **Broadcast-Grade FULL HD Picture quality**
- ✓ **Mix to the existing antenna coax together with other FreeView signals**
- ✓ **5 Years of warranty**



Total Quality, Never been so simple



BLOCK DIAGRAM



Save on Cables & Adapters

VeCOAX-T4 does not need any additional set top box, nor adapters, extra cables and power supplies on each TV in every room, since it distributes your Full HD Video via the common antenna cable.

You'll be able to switch between your new HD channels and any other standard received channel just using the original TV remote control.

Each room – just the TV – Clean, Easy, HD.

Home Entertainment

VeCOAX-T4 is the perfect HD Multi-Video distribution solution for any Home Entertainment system, connecting any Home-Video Master system to all the other TVs in each room without the need to duplicate the AV equipment. The IR option allows infrared remote control feedback from any room to the master AV system via the same Coax Cable.



Hotel TV

VeCOAX-T4 is the ideal choice to create unlimited HDTV channels in any Hotel and distribute to common TVs in every room via the Coax Cable. Digital Signage, Info Channels, Meeting channels, and any other video taken from any HD / SD Video source.



Sport Bars & Casinos

VeCOAX-T4 is the perfect solution for quality distribution to HDTV screens in Sport Bars, Restaurants, Casinos



And any other..

Campus, Schools, Hospitals, Cruise Liners, Boats, Stages, Airports, Metro, Corporates, and yours..

Benefits

- ✓ No Needs for any new cables
Works on the existing antenna coax cables to all your TVs in every Room
- ✓ Save on adapters on each TV since it does not need anything but the TV.
- ✓ Add as Many TVs you need by just connecting it to the antenna coax cable.
- ✓ FOUR HDMI inputs for the best Picture Quality and Lowest Cost Per Channel
- ✓ ASI input to feed external programs and modulate it to the same RF out and IP streaming out up to the max bandwidth
- ✓ Use more units for the wanted number of HD channels through the same antenna coax cable, up to 500 meters
- ✓ Use the original TV remote control – no need for any additional remote control

Specifications



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Video Inputs

HDMI

- 4x HDMI 1.3 Full HD Input
36-bit color depth
1080i / 720P Resolutions
59,94 / 50 Frames/Fields
- HDMI Audio Stereo/Surround

Audio Inputs

HDMI

- 4x HDMI Audio Stereo/Surround

Video Encoders

Simultaneous HD Encoding

- **FOUR** independent / simultaneous encoders, Full Frame, Full Quality, Full Resolutions.
- Each Encoding channel can be set to the wanted parameters independently from the others

Video Encoding profiles per each channel

- Mpeg-4 H.264 AVC
- HD HP@L4 High Profile @ Lever 4.0
1920x1080i, 1280x720p
- RF Out follows the sum of the encoding settings

Compression Modes per each channel

- Broadcast-Quality Hierarchical motion estimation
- VBR Statistical Multiplexing
- Also CBR Mode
- 0.3 Mbps to 20 Mbps
- Programmable Low Delay
100 -400 msec
- Programmable GOP
- User defined Program Name, Service Provider, and other PSI information
- User defined PIDs

Audio Encoders

Simultaneous Audio Encoding

- **FOUR** independent / simultaneous audio encoders, one per each HDMI input

Audio Encoding profiles per each channel

- Mpeg-1 Layer II – All Modes
- AAC-LC AAC-HE (option)
- Surround pass-through

ASI input & Remuxing

ASI input

- 1x ASI Burst/Byte 188/204 Transport Stream Input
- Accepts any MPTS (multi program transport stream) or SPTS (single program transport stream)
- Rates up to 214 Mbit/s

Remultiplexing

- Decoding of the Services information from the ASI input
- Ability to “ REMUX “ selected DVB services (programs) from the ASI input to the ASI/IP/RF outputs, together with the FOUR generated New programs from the 4 HDMI in.
- Complete management of PIDs, Service provider/s, Service Names, manual or automatic PIDs remapping or pass-through, PCR correction, EMM/ECM cas and DSMCC PIDs and descriptors pass-through, etc.
- Full Remultiplexer features are completely controlled by using our
- NMS Software (included) on any PC

Specifications

RF Modulator Out

DVB-T Version

- DVB-T Standard DVB NE300744
- HD Broadcast 1080i /720P
- Frequency range:
VHF 177.5-226.5 MHz
UHF 474 – 858 MHz
- Channel Bandwidth : 7/8 Mhz
- RF Out Level: from -30 to -10 dBm
- Impedance : 75 Ohm (50 opt.)
- MER: Professional-Grade >45 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 + US Clear QAM Version

- DVB-C Standard DVB EN300429
- And North American Clear QAM
- Frequency range:
47 – 862 MHz
(channel 2-141)
- RF IN – built-in Mixer
- RF Out Level: from -30 to -10 dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression
- 1 to 74990 Ms/s
- - **ITU-T J.83 B (USA)**
- - 64 QAM / 256 QAM
- - **ITU-T J.83 A/C (Europe/Japan)**
- - 16/32/64/128/256 QAM

ATSC 8VSB Version

- North American ATSC 8VSB
- PSIP descriptors edit and Injection
- Frequency range:
47 – 862 MHz
- RF IN – built-in Mixer
- RF Out Level: from -30 to -10 dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and

RF Modulator Out

ISDB-T Version

- South American ISDB-Tb
- Frequency range:
47 – 862 MHz
- RF IN – built-in Mixer
- RF Out Level: from -30 to -10 dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression

IPTV Out

IP Streaming out

- MPTS IP Streaming out
- Simultaneous to RF out
- Ideal for Wifi and Lan Simulcast
- UDP Multicast with full IGMP support
- Unicast up to 90 Mbit/s of requests.
- Complete config of network param.
- Compatible with any IP Set Top Box, Video player software, VLC, etc.

Control

Full Local Control/Setup

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

Pro Remote Control

- The system comes with a full-featured Network Management Software, to control unlimited units from remote PCs via common IP connection and SNMP protocol.

Physical and Power

Power - 90 to 240 VAC 50/60 Hz - 28 Watts

Cooling - Almost Cold and quiet operation
internal fan side to side flow

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

Dimensions 490x455x44.5 millimeters
(19.2 x 17.9 x 1.75 inches)

Weight - 6,5 Kilograms (14,3 lbs)

Operating Temperature

-10°C to 50°C (14°F to 122°F)

Relative Operating Humidity

10% to 90% (Non-condensing)

Mounting - Rack Mount via provided brackets
Desktop via provided Rubber Feet

Compliance

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

Ordering Information

VeCOAX-T4 rackmount ASI+IP

VeCOAX-T4 DT desktop ASI+IP

RF Output option

- **T** adds DVB-T RF out

- **C** adds DVB-C + ClearQAM RF out

- **I** adds ISDB-T RF out

- **A** adds ATSC 8VSB RF out

Audio Options

- **AC3** adds AC3 Stereo compression

- **AAC** adds AAC-LC Stereo Compression

