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
✓ 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

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-T4I 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
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.

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

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, Metropolitan, Corporates, and yours..
Specifications

**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
- 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
- Guard Intervals: 1/4, 1/8, 1/16, 1/32
- Traffic: 2/2K / 8K mode
- Code Rates: 1/2, 2/3, 3/4, 5/6, 7/8

**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

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

**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
- Traffic: 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 spurious suppression

### RF Modulator Out

**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
- **MTBF** - 40,000 Hours 24/7 non-stop
- **Dimensions** 490×455×44.5 millimeters
  (19.2 x 17.9 x 1.75 inches)
- **Weight** - 6.5 Kilograms (14.3 lbs)
- **Relative Operating Humidity** 10% to 90% (Non-condensing)
- **Mounting** - Rack Mount via provided brackets
- **Compliance**
  - EN55022, EN61000-3-210, EN61000-3-310,
  EN55024, CISPR22, EN60950-1
  - 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

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