



DVB-S2X TRANSMODULATOR

# HDC-7004

SAT & IP to 4 DVB-C QAM Transmodulator

- 4K/UHD
- H.265/HEVC
- IP / Ethernet
- DVB-S2X
- DVB-C
- QAM
- DiSEqC

Model designation as per manufacturer reference

## Overview

The VIZOBOX HDC-7004 is a professional transmodulator that converts DVB-S2X satellite input into adjacent DVB-C QAM RF channels for head-end distribution.

## Key Features & Applications

- ✓ SAT & IP to 4 DVB-C QAM Transmodulator
- ✓ + 1 Ethernet IP input port serving The VIZOBOXHDC-7004
- ✓ PID Remapping/PID pass
- ✓ 4 multiplexed or scrambled TS over UDP output
- ✓ (EN 300 429) and ITU-T J.83 A/B/C
- ✓ IPTV Synchronization & NTP -> TDT The internal multiplexer
- ✓ Up to 180 PIDS remapping per channel any combination of
- ✓ simulcrypt standards ETSI 101 197 and ETSI 103 197
- ✓ 4 DVB-S2x Transponder inputs L, KU, C-Band
- ✓ PCR adjusting/PSI/SI editing and inserting / IP to QAM modulator
- ✓ Excellent RF output performance index, MER≥40db scrambler.
- ✓ 4 adjacent QAM carriers output, compliant to DVB-C
- ✓ USB for upgrading CPU/FPGA
- ✓ Web-based Network management creates 4 streams with
- ✓ Support DVB general scrambling system (ETR289), content (UHD/HEVC/

## Technical Specifications

<b>IP-Input</b>	512 Streams from GbE input by 1000Mb/s Ethernet Port
<b>Transport Protocol</b>	TS over UDP/RTP, unicast and multicast, IGMP V2/V3 Input
<b>Transmission Rate</b>	max 84Mbps for each IPTV input
<b>4x DVB-S2x Tuner/demod</b>	L-Band: Most common standards supported, DiSEqC 4 SAT pos.
<b>Remapping</b>	Max. 512 PIDs per Channel
<b>Output Channel</b>	4 adjacent -> 4x IP out as MPTS (from 4 MUX) PID remapping (auto / manually) Multiplexing PCR restamping Functions PSI/SI table automatically generating NIT, LCN generation and inserting, auto or manual
<b>Max simulcrypt CA</b>	4 Systems Encryption
<b>CA Standard</b>	ETR289, ETSI 101 197, ETSI 103 197 Parameters
<b>Connection</b>	Local/remote connection to CAS
<b>QAM Channel</b>	4 adjacent carrier
<b>Modulation Standard</b>	DVB-C Annex A/C and B EN300 429/ITU-T J.83A/B
<b>Modulation</b>	Symbol Rate · 5.0...9.0 MSps, 1 kSps steps, FEC Parameters
<b>Constellation</b>	16, 32, 64, 128, 256QAM dep. On A/C or B
<b>FEC</b>	RS (204, 188) inner/outer configurable
<b>Interface</b>	1 F-type output port for 4 QAM channel, 75Ω impedance
<b>RF Range</b>	30...1000 MHz, 1kHz steps

<b>RF Output</b>	Output Level · -10 dBm...+0 dBm (87...107 dBμV), 0.1dB steps
<b>MER</b>	≥ 40dB
<b>ACLR</b>	-60 dBc
<b>TS output</b>	4 MPTS IP output over UDP/RTP multicast by 1x100/1000M Gbit-Ethernet Port
<b>System</b>	Network management software (NMS) support (100BaseT) and USB port upgrade support
<b>Dimensions</b>	19" 1U: 430mm×220mm×44mm (WxLxH)
<b>Weight</b>	3.5kg
<b>General</b>	Temperature · 0...45°C (operation), -20...80°C (storage)
<b>Power Supply</b>	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
<b>Consumption</b>	25.4W
<b>Technical changes are subjects w/o notifications</b>	VIZOBOXHDC 7004



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