



EDGE-QAM MODULATOR

# HDC-5004

IP to 4 QAM Modulator

4K/UHD

H.265/HEVC

IP / Ethernet

DVB-C

QAM

Model designation as per manufacturer reference

## Overview

The VIZOBOX HDC-5004 is an EDGE-QAM modulator that multiplexes IP input streams into adjacent DVB-C QAM RF carriers for cable TV head-end distribution.

## Key Features & Applications

- ✓ IP to 4 QAM Modulator
- ✓ (EN 300 429) and ITU-T J.83 A/B/C
- ✓ and ETSI 103 197
- ✓ up to 512 SPTS or MPTS IPTV channels
- ✓ PID Remapping/PID pass
- ✓ (ETR289), simulcrypt standards ETSI 101 197
- ✓ VIZOBOXHDC-5004 modulates
- ✓ within 30...1000 MHz bandwidth,

## Technical Specifications

<b>Input</b>	512 from 4x IP inputs by 100Mb/s Ethernet Ports
<b>Input</b>	Transport Protocol · TS over UDP/RTP, unicast and multicast, IGMP V2/V3
<b>Transmission Rate</b>	max 84Mbps for each IPTV-1...4 input
<b>Remapping</b>	Max. 780 PIDs per Channel
<b>Output Channel</b>	4 adjacent -> 4x IP out as MPTS (from 4 MUX) PID remapping (auto / manually) Mux PCR restamping Functions PSI/SI table automatically generating NIT,LCN generation and inserting, auto or manual
<b>Max simulcrypt CA</b>	4
<b>Encryption</b>	CA Standard · 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 Modulation
<b>Parameters</b>	Symbol Rate · 5.0...9.0 Msps, 1 kSps steps, FEC
<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 4 MPTS IP output over UDP/RTP multicast by TS output 1x100/1000M Gbit-Ethernet Port (@ Rear – IPTV –port) Network management software (NMS) support (Rear: 100BaseT) System and USB port upgrade support
<b>Dimensions</b>	19" 1U: 430mm×180mm×44mm (WxLxH)

<b>Weight</b>	3kg
<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>	15.4W HDC 5004 Corresponding Products: HDC-5016: IP 2 QAM 16 agile ch IGS-900: 16 SAT-Transponder to IP IGS-700: 4 SAT/T/C decrypt to IP Encoder - Streamer Family: EMU's, HDE's, SDE's ... New coming 2020: BSS-4504 Platform 12 Tr. to IP



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