



EDGE-QAM MODULATOR

# HDC-5016-32-64

IP to 16, 32, 48, 64 QAM Modulator

IP / Ethernet

DVB-C

CI

QAM

Model designation as per manufacturer reference

## Overview

The VIZOBOX HDC-5016-32-64 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 16, 32, 48, 64 QAM Modulator
- ✓ Up to 512 channels TS over UDP/RTP multicast, IGMP V2/V3 input
- ✓ 16/32... non-adjacent QAM carriers' output, compliant to
- ✓ 16/32... multiplexed or scrambled TS over UDP/RTP output HDC-5016/32 /48/64 is the
- ✓ CA PID filtering, remapping and PSI/SI editing Modulator with multiplexer
- ✓ Support DVB general scrambling system
- ✓ and ETSI 103 197
- ✓ Supports RS (204,188) encoding The internal multiplexer
- ✓ Broadcast quality low MER with any combination of
- ✓ 16, 32, 48 & 64 DVB-C RF channel outputs
- ✓ 2+1 GigE input, 1 RF output
- ✓ Max 840 Mbps for each GigE input
- ✓ DVB-C (EN 300 429) Annex A/C resp. ITU-T J.83 A/B
- ✓ Accurate PCR adjusting 5th Generation IP to QAM
- ✓ Up to 180 PIDS remapping per channel and scrambler.
- ✓ (ETR289), simulcrypt standards ETSI 101 197
- ✓ 16/32 TS scrambler, max 4/6 CAS simulcrypt
- ✓ Web-based Network management creates 16...64 streams
- ✓ This EDGE-QAM model is available with content or pass through.
- ✓ HDC-5016, HDC-5032, HDC-5048 and HDC-5064

## Technical Specifications

IP to QAM Modulator with up to > 512\* IPTV input Function 16-64 DVB-C and 16-64 IPTV MPTS output

INPUT	
IP input	> 512* from 2 IP input: 3* Gigabit Ethernet Port (Max 840 Mbps for each GigE input)
Transport protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
MULTIPLEXING	
Input IP streams	In Total 512* (DATA1 + 2 · +128 max DATA Front*)
Output channel	16...64, agile quantity
Max PIDs	180 per channel PID remapping (auto/manually optional), PCR accurate adjusting, PSI/SI table Functions automatically generating Max simulcrypt CA: 4/6*, Standard: ETR289, ETSI 101 197, ETSI 103 197, Scrambling parameters Local/remote connection
MODULATION	
QAM channels	16 ...64 non-adjacent carriers,
Modulation Standard	EN300 429/ITU-T J.83A/B (DVB-C Annex A/C and US-B)
Symbol Rate	5.0...7.0Msps, 1ksps stepping
Constellation	16, 32, 64 , 128, 256QAM

<b>FEC</b>	RS (204, 188)
<b>RF OUTPUT</b>	1 F type output port for 16...64* carriers (int. Comb.), 75Ω impedance
<b>RF Range</b>	50...960MHz, 1kHz stepping
<b>Output Level</b>	-20dBm...+10dBm (87...117dBμV), 0.1dB stepping
<b>MER</b>	≥ 40dB, ACLR: -60 dBc
<b>TS OUTPUT</b>	16...64* IP output over UDP/RTP/RTSP multicast, 2 GigE Ethernet Ports (DATA 1+2)
<b>SYSTEM</b>	
<b>Control</b>	Network management (WEB-IF), English menu, Ethernet software upgrade
<b>GENERAL</b>	
<b>Dimensions, Weight</b>	420mm × 440mm × 44.5mm (WxLxH) , 19" 1U, 3 kg, HDC-5032: 4,2kg, ...*
<b>Power</b>	AC 110V ±10%, 50/60Hz or AC 220V ±10%, 50/60Hz, Consumption: 15.4 W
<b>Temperature</b>	0...45°C (operation), -20...80°C (storage) HDC-5016 /32/48/64



**Vizobox Development GmbH**

Hanauer Landstraße 126-128  
60314 Frankfurt am Main, GERMANY  
[www.vizobox.de](http://www.vizobox.de)

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