

IP to QAM Modulator



- ✓ 2 GigE input, 1 RF output
- ✓ Up to 1024 channels TS over UDP/RTP, unicast and multicast, IGMP v2/v3 input
- ✓ Max 840 Mbps for each GigE input
- ✓ 16 non-adjacent QAM carriers output, compliant to DVB-C (EN 300 429) and ITU-T J.83 A/B
- ✓ 16 multiplexed or scrambled TS over UDP/RTP/RTSP output
- ✓ Accurate PCR adjusting
- ✓ CA PID filtering, remapping and PSI/SI editing
- ✓ Up to 180 PIDS remapping per channel
- ✓ Support DVB general scrambling system (ETR289), simulcrypt standards ETSI 101 197 and ETSI 103 197
- ✓ Supports RS (204,188) encoding
- ✓ Web-based Network management
- ✓ Broadcast quality

BLANKOM HDC-5016 is a 5th generation IP to QAM modulator with multiplexer and scrambler.

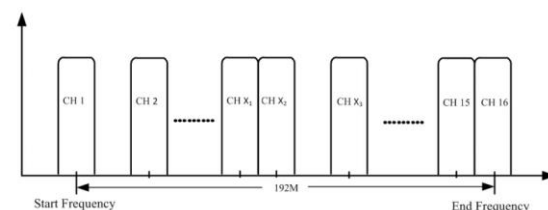
The IPTV input channels can be SPTS or MPTS, unicast or multicast.

The internal multiplexer creates 16 streams with any combination of content.

The output consists of 16 DVB-C carriers within 192 MHz bandwidth, each with up to 256QAM modulation.

Each of the 16 output multiplexes are also provided as MPTS IPTV streams, UDP/RTP/RTSP, unicast or multicast at the both data ports.

BLANKOM HDC-5016 modulates up to 1024 SPTS or MPTS IPTV channels into 16 QAM (DVB-C) carriers within 192 MHz bandwidth, in broadcast quality.



Technical specifications:

Function	IP to QAM Modulator with up to 1024 IPTV input, 16 DVB-C and 16 IPTV MPTS output
INPUT	
IP input	512x2 IP input, 2 Gigabit Ethernet Port (Max 840 Mbps for each GigE input)
Transport protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
MULTIPLEXING	
Input channel quantity	1024
Output channel quantity	16
Max PIDs	180 per channel
Functions	PID remapping (auto/manually optional), PCR accurate adjusting, PSI/SI table automatically generating
Scrambling parameters	Max simulcrypt CA: 4, Standard: ETR289, ETSI 101 197, ETSI 103 197, Local/remote connection
MODULATION	
QAM channels	16 non-adjacent carriers,
Modulation Standard	EN300 429/ITU-T J.83A/B
Symbol Rate	5.0~7.0Msps, 1ksps stepping
Constellation	16, 32, 64 , 128, 256QAM
FEC	RS (204, 188)
RF OUTPUT	1 F typed output port for 16 carriers, 75Ω impedance
RF Range	50~960MHz, 1kHz stepping
Output Level	-20dBm~+10dBm (87~117dBμV), 0.1dB stepping
MER	≥ 40dB, ACLR: -60 dBc
TS OUTPUT	16 IP output over UDP/RTP/RTSP, unicast/multicast, 2 GigE Ethernet Ports
SYSTEM	
Control	LCD/keyboard, network management (SNMP and WEB), English menu, Ethernet software & hardware upgrade
GENERAL	
Dimensions, Weight	420mm × 440mm × 44.5mm (WxLxH) , 19" 1U, 3 kg
Power	AC 110V ±10%, 50/60Hz or AC 220V ±10%, 50/60Hz, Consumption: 15.4 W
Temperature	0~45°C (operation), -20~80°C (storage)

