Specification

IP to 8 COFDM Modulator

ACE 08IPOFDM Plus

SKU : AD0121AAA1002

The **ACE 08IPOFDM Plus** modulator is a high integration device which is combined with two independent modules. One is IPTV gateway module which is used for the protocol conversion scenarios and streaming media distribution scenarios and it can convert the network IP stream over HTTP, UDP, RTP, RTSP, HLS and TS file into HTTP, UDP, HLS and RTMP protocol. The other is modulator module which supports IP in and IP out and DVB-T RF out, and it can receive gateway source directly. So ACE 08IPOFDM Plus achieves IP (HTTP, UDP, RTP, RTSP and HLS) in to RF out in one box.

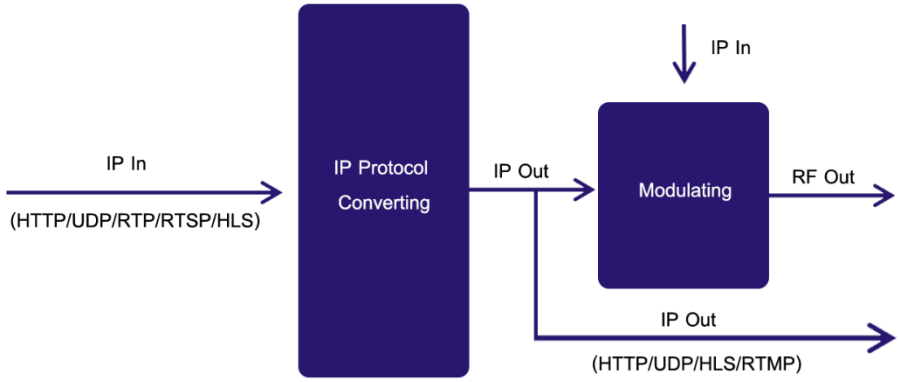
In conclusion, its high performance makes it widely used in CATV digital head-end, business application, IPTV/OTT system, etc. and it provides various solutions for operators to re-distribute programs.

Main Features:

- 1 IPTV gateway module +1 IP modulator module, and they can work independently
- IP in (HTTP, UDP, RTP, RTSP and HLS) to RF out in one box
- Gateway Module:
  *8 Data ports:
  First Data port: IP out over HTTP, UDP (SPTS), HLS and RTMP
  Data CH1-7 ports: IP in over HTTP, UDP (SPTS), RTP (SPTS), RTSP and HLS
  IP out over HTTP, HLS and RTMP (Unicast)
  *Transmitting IP to modulator module through Data port
  *Support adding scrolling caption, welcome words, boot picture and boot video (this function is only applicable to IP out application and the STB/Android TV must be installed ACE 08IPOFDM Plus)
  *Support downloading ACE 08IPOFDM Plus directly from this module
- Modulator Module:
  *IP input over UDP/RTP through Data/Data 1/2 port
  *IP output over UDP/RTP/RTSP through Data 1/2 port
  *Support 8 DVB-T
  *Receiving IP from gateway module directly through Data port
- Support IP anti- jitter function
- Control the 2 modules separately via web-based NMS management
- Support TS files uploading through Web management

Specification

Principle Chart:



Specifications: IPTV gateway

PRODUCT	ACE 08IPOFDM Plus
Input	IP input thru CH 1-7(1000M) over HTTP, UDP(SPTS), RTP(SPTS), RTSP (over UDP, payload: mpeg TS) and HLS
	TS files uploading through Web management
IP output	IP out thru DATA port (1000M) over HTTP (Unicast), UDP(SPTS, Multicast) HLS and RTMP (Program source should be H.264 and AAC encoding) IP out thru CH 1-7(1000M) over HTTP/ HLS/RTMP (Unicast)
System	Memory: 4G
	Solid-State Disk(SSD): 16G
	Channel switching time with ACE' STB: HTTP (1-3s), HLS (0.4-0.7s)
	Support adding scrolling caption, welcome words, boot picture and boot video (this function is only applicable to IP out application and the STB/Android TV must be installed ACE 08IPOFDM Plus)
	Support downloading ACE 08IPOFDM Plus directly from this module
	Play programs with APK downloaded android STB and TV, maximum 150 terminals
	Support about 80 HD/SD programs (Bitrate: 2Mbps) When
	HTTP/RTP/RTSP/HLS is converted into UDP (Multicast), the actual application shall prevail, and suggest maximum 80% CPU utilization
	web-based NMS management thru module's DATA port

Specification

Specifications: Modulator module

PRODUCT		ACE 08IPOFDM Plus	
Input	DVB-T	256 IP (MPTS/SPTS) input over UDP/RTP, 2 100/1000M Ethernet Port	
Multiplexing		DVB-T	
	Input Channel	256	
	Output Channel	8	
	Max PIDs	180 per channel	
	Functions	PID remapping(auto/manually optional)	
		PCR accurate adjusting	
		PSI/SI table automatically generating	
Modulation Parameters	DVB-T	Standard	ETSI EN300 744
		Constellation	QPSK/16QAM/64QAM
		Bandwidth	6/7/8 MHz
		Trans mode	2K/4K/8K
		FEC	1/2, 2/3, 3/4, 5/6, 7/8
		MER	≥ 40dB
		RF frequency	50~960MHz, 1kHz stepping
		RF output Level	-20~+10dBm, 0.5dB stepping
		RF out channel	8 non-adjacent carrier outputs within 192M bandwidth
TS output	8(DVB-T/ ATSC)/ 6(ISDBT) IP output over UDP/RTP/RTSP, unicast/multicast, 2*100/1000M Ethernet Ports (Data 1/2)		
System	web-based NMS management thru module's NMS port		
General	Demission	482mm×324mm×44mm (WxLxH)	
	Temperature	0~45℃(operation), -20~80℃(storage)	
	Power Supply	AC 100V±10%, 50/60Hz or AC 220V±10%, 50/60Hz	