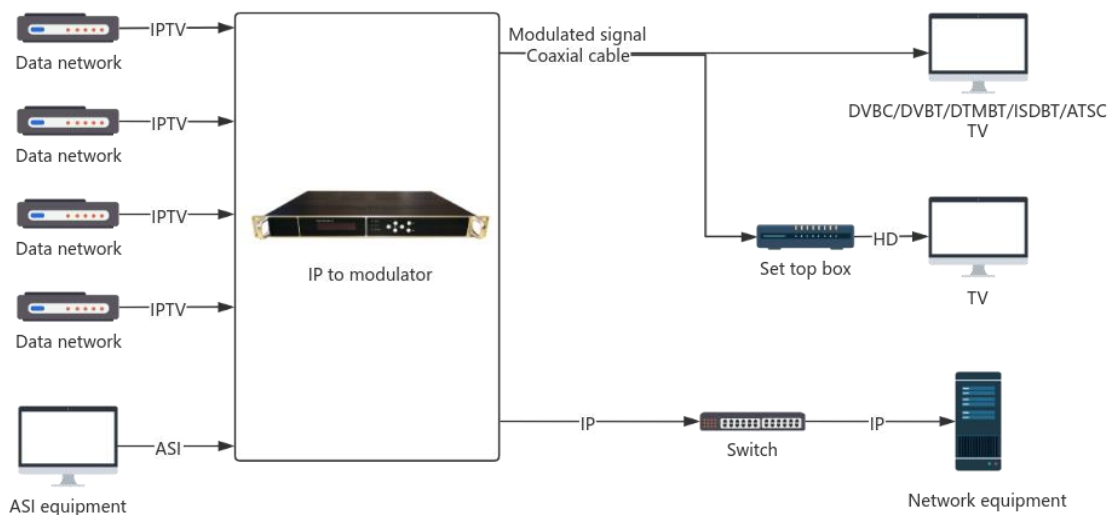


Product Overview

HX03XR series products are Catcast's latest research and development of a digital TV front-end audio and video processing cost-effective equipment, can achieve IP, ASI input to modulation output . supports 2 Gigabit inputs and 1 Gigabit output, supports multiple protocol inputs (RTMP/HTTP/RTSP/HLS/SRT) , supports 6 ASI inputs.The device can select 8/12/16/24 carrier output according to customer needs.The device has excellent performance and flexible configuration, using 1U chassis, compact structure, easy to install and use. A single device integrates a whole set of front-end system functions, which is very suitable for a variety of new generation digital TV broadcasting systems.



System function diagram



Product features

- Provides 3 gigabit port input/output
- Supports **RTMP/HTTP/RTSP/HLS/SRT** input(DATA1) , UDP/RTP input(DATA3)
- Supports 6 ASI inputs
- Supports 8/12/16/24 carrier output (**DVB-T/- C/DTMBT/ATSC/ISDBT** optional)
- Supports 8 MPTS output (DATA2,UDP/RTP)
- Integrated multiplexing and modulating functions
- Using 1U chassis, a single device integrates a set of front-end device functions, saving installation and wiring space
- Supports network management (Web)
- Support online upgrades

Product model selection

Product model	Device ports	Input	Output
NX0308R	3 Gigabit port; 1 NMS port; 6 ASI port; 1 RF out	2 Gigabit input 6 ASI input	8 carrier output; (Total output bandwidth:192MHz) 1 Gigabit output(8 MPTS)
NX0312R	3 Gigabit port; 1 NMS port; 6 ASI port; 1 RF out	2 Gigabit input 6 ASI input	12 carrier output; (Total output bandwidth:192MHz) 1 Gigabit output(8 MPTS)
NX0316R	3 Gigabit port; 1 NMS port; 6 ASI port; 1 RF out	2 Gigabit input 6 ASI input	16 carrier output; (Total output bandwidth:768MHz) 1 Gigabit output(8 MPTS)
NX0324R	3 Gigabit port; 1 NMS port; 6 ASI port; 1 RF out	2 Gigabit input 6 ASI input	24 carrier output; (Total output bandwidth:768MHz) 1 Gigabit output(8 MPTS)

Product structure



Number	Interface Overview
1	LCD
2	Keys and indicator lights
3	RF out: Frequency Output
4	NMS: Network Management System
	DATA1: IP input ,RTMP/HTTP/RTSP/HLS/SRT protocol
	DATA2: IP output, MPTS over UDP/RTP protocol
5	ASI IN: Serial TS Input (Any Multiplex)
6	Power Switch

Specifications

Input	2 IP inputs (DATA1:RTMP/HTTP/RTSP/HLS/SRT input; DATA3 : UDP/RTP input)			
	6 ASI input			
Output	RF output	1 RF output interface, F-type connector, 75Ω impedance		
		RF output 8/12/16/24 carrier (DVB-T/ATSC/ISDBT/DMBT) or 32 carrier (DVB-C) optional		
	IP output	8 MPTS output (DATA2)		
Modulation Mode	DVB-T	Standard	EN300744	
		FFT	2K	
		Bandwidth	6M, 7M, 8M	
		Constellation	QPSK, 16QAM, 64QAM	
		Guard Interval	1/4, 1/8, 1/16, 1/32	
		FEC	1/2, 2/3, 3/4, 5/6, 7/8	
		MER	≥37dB	
		RF frequency	96~864MHz, 1KHz step	
		RF output level	-35~ -5dBm, 0.1db step	
	DVB-C	Standard	EN300 429/ITU-T J.83A/B/C	
		MER	≥37db	
		RF frequency	96~864MHz, 1KHz step	
		RF output level	-35~-5dBm , 0.1dBm step	
		SR	5.0Msps~7.0Msps, 1ksps step	
		Constellation	16/32/64/128/256QAM	
		Bandwidth	6~8M	
	DTMBT	Standard	DTMB GB20600-2006	
		Constellation	4QAM、16QAM、32QAM、64QAM	
		MER	≥37dB	
		RF frequency	96~864MHz, 1kHz step	
		RF output level	-35dBm~-5dBm, 0.1dB step	
	ATSC	Standard	ATSC A/53	
		MER	≥37dB	
		RF frequency	96~864MHz, 1KHz step	
		Constellation	8VSB	
	ISDBT	Standard	ARIB STD-B31	
		FFT	2K	
		Constellation	QPSK, 16QAM, 64QAM	
		FEC	1/2, 2/3, 3/4, 5/6, 7/8	
		Hierarchical mode	A	
		Bandwidth	6M	
	System	Web/NMS		
		Chinese/English		
Miscellaneous	Dimensions	482mm×300mm×42mm		
	Weight	4kg		
	Temperature	0~45°C(Operation); -20~80°C(Storage)		
	Voltage range	AC100~240V, 50/60Hz		
	Power consumption	<30W		