

Data Sheet : H-THUNDER-8

HDMI Modulator | QAM RF Coax Output

Full HD up to 1080P - 8 Channel



Thor 8 HDMI Digital RF Modulator is an all-in-one device integrating MPEG2 encoding and modulating to convert audio video signals into DVB-C T ATSC ISDB-T RF out.

Thor Thunder-8 HDMI RF Modulator

The **Thor Thunder-8 HDMI RF Modulator** is a high-performance, 8-channel solution designed for encoding and modulating HDMI sources into CATV RF channels. With support for **Full HD resolutions up to 1080p/60**, this device enables the efficient and cost-effective distribution of HDMI signals across coaxial networks, making it perfect for large-scale setups.

The Thunder-8 accepts HDMI inputs from a variety of sources, including **set-top boxes (STBs)**, **satellite receivers**, **CCTV cameras**, and **media players**, and distributes them as RF signals compatible with any TV or STB. Pre-loaded with all major **global RF modulation standards**— including **QAM**, **ATSC**, **DVB-C Annex A/B**, **DVB-T**, and **ISDB-T**—this unit is a true plug-and-play solution that can operate seamlessly in any region worldwide.



Applications:

The Thunder-8 is tailored for environments requiring reliable video distribution to multiple TVs. It's ideal for settings such as:

- Hotels and Resorts: Deliver entertainment channels to guest rooms.
- Schools and Universities: Broadcast educational content across multiple classrooms or buildings.
- **Government and Military Facilities**: Provide secure content distribution for internal communication.
- Trade Shows and Events: Broadcast promotional or informational content to large crowds.
- Churches and Concerts: Stream live services or performances to overflow areas.

Its ability to modulate multiple HDMI sources into RF channels makes it a versatile choice for any application where high-density video distribution is required.

Comparison: Thunder-8 vs. Other Models

Feature	Thor Thunder-8	H-HDMI-QAM-IPLL Series	
Number of Inputs	8	1, 2, 4, 8	
Number of CATV Frequencies	8 (each source modulated on its own channel)	4 (supports multiple programs on one channel, e.g., 2.1, 2.2)	
Modulation Standards	QAM, ATSC, DVB-T, ISDB-T (pre-loaded)	QAM, ATSC, DVB-T, ISDB-T (firmware dependent)	
Encoding Method	MPEG-2	MPEG-2 or H.264 (selectable)	
Dolby Audio Support	Yes	Yes	
NMS (Network Management System)	Yes	Yes	
Front Panel Control	Yes	Yes	
IPTV Output	No	Yes	



Features:

- **8 HDMI Inputs**: Allows simultaneous modulation of up to 8 HDMI sources into individual RF channels.
- **Global Compatibility**: Pre-configured to support all major RF modulation standards, ensuring smooth integration in any country or application.
- **Easy Management**: Features a **web-based GUI** for remote configuration and monitoring, as well as an intuitive **front-panel LCD display** with physical buttons for quick adjustments.
- Compact Design: Rack-mountable 1RU chassis for efficient space utilization in AV racks.
- **Professional Encoding**: Encodes video in **MPEG-2** and audio in **AC3** or **MPEG1** to deliver highquality output with low latency.
- HDCP Compliance: Ensures compatibility with encrypted HDMI signals from various sources.

HDMI Encoding Section					
Input	Interface		H-THUNDER-8 - 8HDMI + 8CVBS for CC		
	Encoding		MPEG2		
Video	Input		Output		
	480@59.94/60i		480@30p		
	576@50i		576@25p		
	720@50/59.94/60p		720@25/30p		
	1080@50i		1080@25p		
	1080@59.94/60i		1080@30p		
	1080@50p		1080@25p		
	1080@59.94/60p		1080@30p		
	Bit-rate		2.000~20.000 Mbps		
	Rate Control		VBR		
	Aspect Ratio		16 :9		
Audio	Encoding		MPEG1 Layer2, AAC, AC3		
	Sample rate		48KHz		
	Bit rate		MPEG1 Layer2 (192kbps)		
			AAC (VBR)		
			AC3 (128kbps)		
DVB-C Modulator Section					
Standard			J.83A (DVB-C), J.83B		
MER			≥35dB		
RF frequency			54-1000MHz, 1KHz step		

Specifications:



RF output level			-35dbm, 1dB step			
Symbol rate			3.000~7.000Msps adjustable			
Constellation 1	J.83/	N	J.83B			
	16/32/64/128/	256QAM	64/ 256QAM			
Bandwidth	8M		6M			
DVB-T Modulator Section						
Standar	d	DVB-T COFDM				
Bandwid	th	2M, 3M, 4M, 5M, 6M, 7M, 8M				
Constellat	ion	QPSK, 16QAM, 64QAM				
Code rat	te	1/2, 2/3, 3/4, 5/6, 7/8				
Guard Inte	rval	1/32, 1/16, 1/8, 1/4				
Transmission	Mode:	2K, 8K				
MER		≥35dB				
RF freque	ncy		54-1000MHz, 1KHz step			
RF output I	evel		-35dbm, 1dB step			
ISDB Modulator Section						
Standar		ARIB STD-B31				
Constellation		QPSK, 16QAM, 64QAM				
Guard Inte		1/32, 1/16, 1/8, 1/4				
Transmissior	n Mode	2K, 4K, 8K				
Code rat	te	1/2, 2/3, 3/4, 5/6, 7/8				
RF freque		54~1000MHz, 1KHz step				
RF output I	evel	-35dbm, 1dB step				
ATSC Modulator Section						
Standar		ATSC A/53				
Constellat		8VSB				
RF output I	evel	-35dbm,1dB step				
MER		≥35dB				
RF freque		54~1000MHz, 1KHz step				
RF output I	evel	-35dbm, 1dB step				
System						
Managem		Web				
Languag		English				
Upgrade	e	Web update				
General						
		2±10%, 50/60Hz or AC 220V±10%, 50/60Hz				
Dimensions		482x328x44.5mm = (19"x12.9"x1.7")				
Temperat	ure	0~45°C(operation),-20~80°C(storage)				



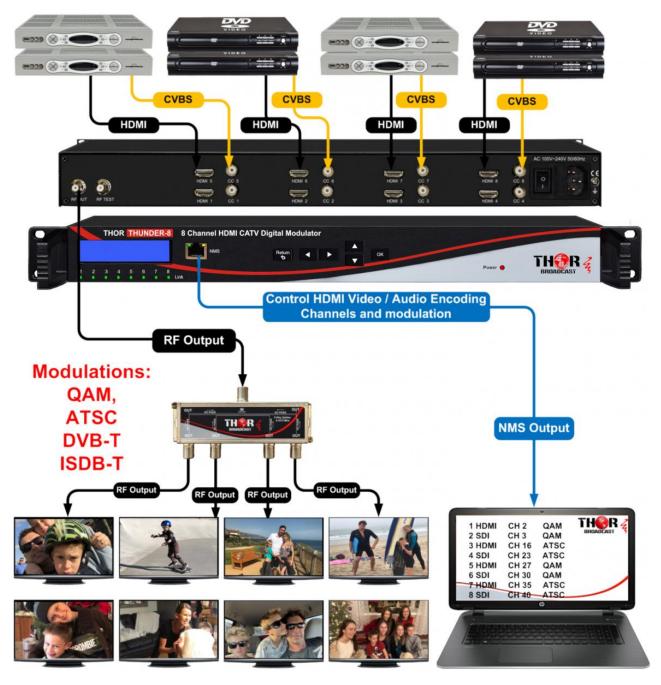


THOR BROADCAST H-THUNDER-8

8 channel HDMI and CVBS Clear CATV RF Modulator

QAM - ATSC - DVB-T - ISDB-T

8 x HDMI & CVBS Inputs



Thor Fiber

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https://thorbroadcast.com