



IPTV to RF Modulator with QAM, ATSC, DVB-T, and ISDB-T Output

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Model: IPcast Mini / H-IPRF-QAM-ATSC | Compact IP-to-Coax Gateway Modulator



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Manufacturer: Thor Broadcast **Model Number:** H-IPRF-QAM-ATSC / IPcast Mini

Primary Purpose: Receives IP video streams over Ethernet and outputs one configurable RF carrier for QAM/DVB-C, ATSC, DVB-T, or ISDB-T television distribution. The unit operates as a gateway-style pass-through modulator and does not normally transcode or re-encode the source video.

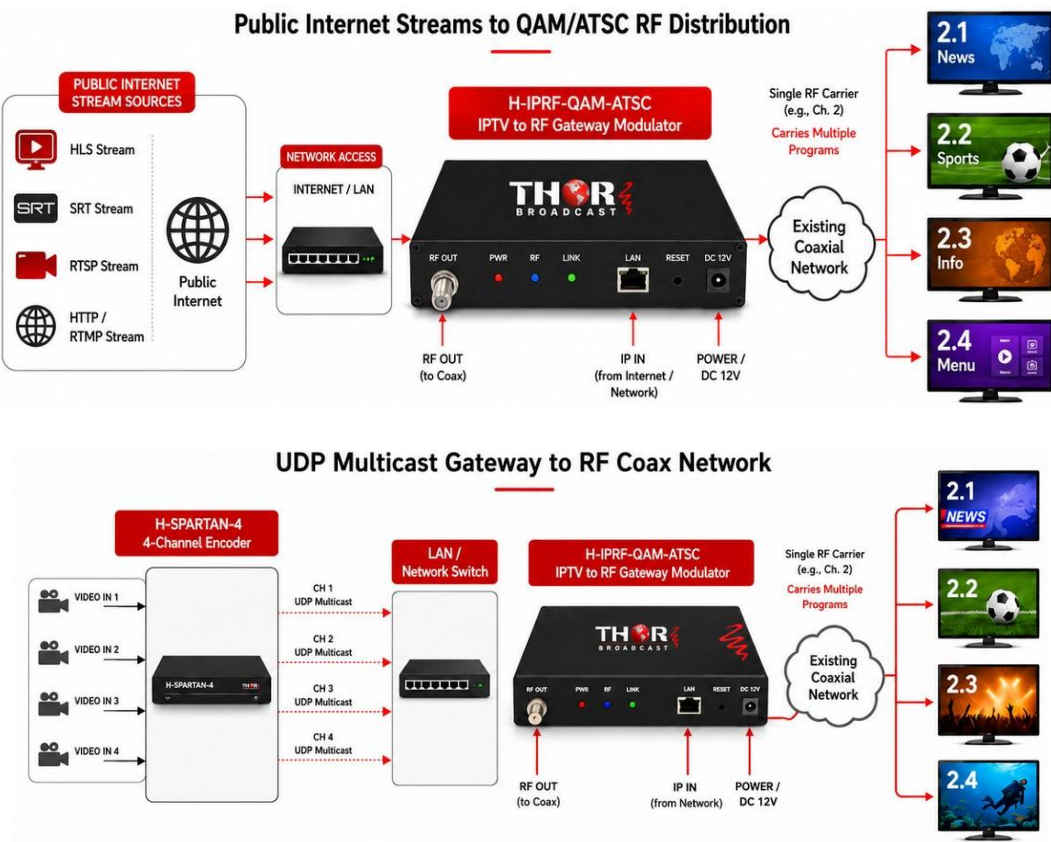
Key Specifications

Category	Specification
Model	H-IPRF-QAM-ATSC / IPcast Mini
Product Type	Single RF channel IPTV to RF gateway modulator
IP Input Interface	1000 Base-T Ethernet, RJ45
Input Protocols	RTSP, RTMP, HTTP, HLS, SRT; unicast UDP/RTP and multicast UDP/RTP
Internet Stream Capacity	Up to 4 IP channel inputs for internet stream protocols
Transport Stream Support	SPTS and MPTS workflows supported depending on input mode and stream configuration
RF Output	One RF carrier/channel output; multiple programs may fit inside the RF channel when bitrate allows
RF Standards	QAM/DVB-C, ATSC, DVB-T, ISDB-T
RF Connector / Range	F connector, 75 ohm; 50 MHz to 950 MHz; 1 kHz step
RF Output Level / MER	Up to 100 dBuV; typical MER 35 dB
QAM / ATSC	16QAM, 32QAM, 64QAM, 128QAM, 256QAM; ATSC 8VSB
DVB-T / ISDB-T	DVB-T 6/7/8 MHz, QPSK/16QAM/64QAM, 2K/8K FFT; ISDB-T Mode 1/2/3
Management / Power	Web GUI over Ethernet; default IP 192.168.0.168; DC 12V, 2A
Dimensions / Warranty	174.9 mm x 100 mm; 2 years

Core Features

- Selectable RF output for QAM/DVB-C, ATSC, DVB-T and ISDB-T systems.
- Supports RTSP, RTMP, HTTP, HLS and SRT stream inputs for flexible IPTV-to-RF conversion.
- Supports unicast and multicast UDP/RTP transport streams with SPTS or MPTS workflows.
- One RF carrier can carry multiple programs when total bitrate fits selected RF modulation capacity.
- Gateway-style pass-through design; MPEG-2, H.264 and H.265/HEVC depend on source and TV/STB compatibility.
- 4K-ready when used with compatible encoded 4K streams, proper bitrate planning and suitable receivers.
- Web GUI for stream setup, program selection, RF modulation, network settings, upgrades and status monitoring.
- Ideal bridge from IP video systems into existing coax MATV/ CATV, QAM, ATSC, DVB-T or ISDB-T distribution networks.

Application Drawings



Target Applications

Application	Use Case
Hotels / Hospitality	Add IPTV, signage or IP camera channels to existing coax TV distribution.
Education / Worship	Create private ATSC/QAM/DVB-T/ISDB-T channels from IP streams for local viewing.
Sports / Corporate	Bridge network video streams into legacy RF coax distribution networks.
Digital Signage	Distribute signage channels over coax instead of installing new IP endpoints.
Broadcast / Test Labs	Generate QAM, ATSC, DVB-T or ISDB-T RF from IP transport streams for receiver testing.

Important System Notes

Topic	Explanation
Single RF Channel	The unit outputs one RF carrier/channel, not four separate RF frequencies. Multiple programs may be carried in that RF channel when bitrate allows.
Program Capacity	Program count depends on total transport-stream bitrate, RF standard, symbol rate/channel bandwidth and receiver compatibility.
Codec Handling	The unit does not normally transcode; the received encoded stream is passed through to RF output.
Typical QAM 256 Capacity	Approx. 38 Mbps usable payload per 6 MHz QAM 256 channel depending on configuration and overhead.