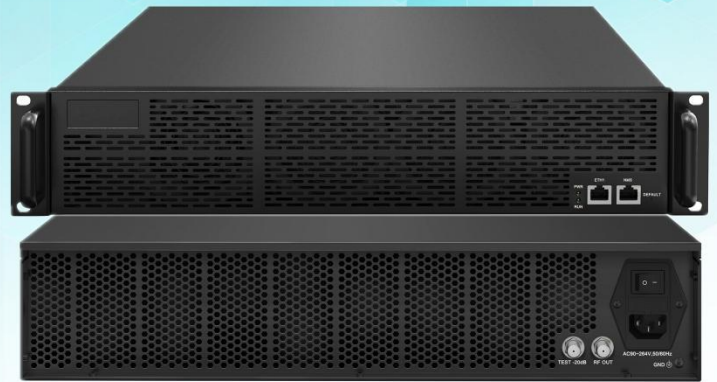


IPM6110

32/48/64 Channels IP to Analog Modulator

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IPM6110, IP to analog RF platform that carries 32/48/64 non-adjacent carriers output in a 2U. This analog modulator can ingest multiple HD or SD IP streams in either MPEG-2/ H.264 /H.265 format and convert them to PAL-B/G, PAL-DK, PAL-I, PAL-M, PAL-N, NTSC modulated RF analog outputs for delivery to legacy analog TV networks.

IPM6110 ensures a high agility inside the whole RF output frequency range. This enables full flexibility and makes the most efficient use of the available channel spectrum. This allows operators to support legacy analog tiers of service while simplifying headend equipment and power consumption and integrating with modern IP video headend architectures.

Features

- 1 GE ports (max 256 IP input over MPTS/SPTS)
- Support H.265/HEVC H.264/AVC, MPEG-2 TS Decapsulation
- MPEG-1/2 Layer 1/2, (HE-)AAC, AC3, E-AC3 audio decoding
- Program volume control supported
- Receive up to 256 IP streams and output up to 32/48/64 channels in NTSC or PAL standard
- Supports non-adjacent frequencies in the whole frequency range, and solves a small number of isolated frequency points
- Support decoding reset function
- Cloud management optional
- Program automatic parsing function
- Automatic HD to SD downscaling
- Support running text and logo insertion
- BISS decryption as an option Supported
- Support multi-sound tracks and subtitles selection
- support Brightness, Saturability, Contrast adjust
- Support Web-based Network management
- passed the EU CE&RoHS certification

TECHNICAL SPECIFICATIONS

Input

Types	1 GE ports (max 256 IP input) Max 840Mbps for each GE input
Stream	UDP, UDP / RTP, 1-7 packets, FEC, SPTS, MPTS
Transport Protocol	TS over UDP/RTP, unicast and multicast, IGMP V2/V3
Packet Length	188 / 204 Bytes

Decoding Parameters

Video	MPEG1/2/4; H.264; H.265; AVS; AVS+; VC1
Audio	MPEG-1 Layer I/II/III; WMA, AAC, AC3
Data	Teletext , BISS decrypt, DVB Subtitle support
Multi-sound track	support
Multi language subtitle	support
Resolution	up to 1080p
Aspect ratio	4:3(Letterbox&PanScan); 16:9
Image setting	Color standards, Video adjustments (Brightness, contrast, Saturation, Hue)

Modulation Parameters

Number of channels	32/48/64
Output Connector	1* RF female 75 Ω
RF Test Point	-20dB Relative to output
Output Carrier	MAX 64 agial channel
Output Range	50 ~ 860MHz
Output Level	≥ 53dBmV combined

Supported Standard	NTSC, PAL BG/DI/DK support
STD,HRC and IRC	support
Audio Output Format	MONO
Audio Level Adjust Range	0~100%
Out-band Rejection	≥ 60dB
Flatness	-2dB per carrier
Return Loss	12 dB (min)
Differential Gain	≤ 5%
Group Delay Response	≤ 100ns
2K Factor	≤ 2%

Network Interface

Management	1 x 100 Base-T Ethernet (RJ 45)
Data	1*100/1000Mbps port (RJ 45)
Protocol	IEEE802.3 Ethernet, RTP, ARP, IPv4, TCP/UDP, HTTP, IGMPv2/v3

General

Dimension	482*88*430mm
Input Voltage	90 ~264VAC
Power Consumption	<200W, <280W, < 350W
Gross Weight	11.46/12.62/13.78 KG

Ordering Information

Model	Description
IPM6110	32 non-adjacent carriers output
IPM6111	48 non-adjacent carriers output
IPM6112	64 non-adjacent carriers output