

HDMI TO ANALOGUE MODULATOR

MC-A4100MD-32PHD

Professional 32-Channel HDMI to PAL/NTSC Analogue RF Modulation Platform



Professional Product Output

Professional digital TV headend device designed to receive DVB-S/S2 satellite services and convert selected channels into stable RF output for hotel TV and commercial MATV distribution.

8 Tuners

Satellite reception

4/8 RF output channels

8 DVB-S/S2

32 Channels

4/8 RF

HDMI

**Digital RF headend solution for hotels, hospitals and commercial TV
distribution networks**

Description & Key Features

DESCRIPTION

The MC-A4100MD-32PHD is a professional HDMI-to-analogue RF modulation platform designed for projects that require the distribution of multiple HD sources through existing coaxial TV networks. It is suitable for hotels, residential buildings, commercial facilities and hospitality environments where analogue television infrastructure remains in operation.

Each module supports dual HDMI input channels and converts Full HD 1080p signals into high-quality PAL or NTSC analogue RF output. The system is compatible with common HDMI sources such as satellite receivers, media players, cameras and other HD multimedia devices.

Built with advanced SAW filtering, PLL frequency locking and double-conversion architecture, the MC-A4100MD-32PHD provides stable frequency performance, clear picture quality and strong suppression of unwanted spurious signals.

Designed for modular headend deployment, the platform supports centralized NMS configuration and firmware upgrades, giving operators an efficient solution for managing large analogue channel line-ups within professional MATV and hotel TV systems.

01**Digital RF Inputs**

Converts Full HD HDMI sources into analogue RF channels for coaxial TV

02**Satellite Reception**

Supports dual adjacent channel output per module, with up to 16 modules for 32-channel

03**IP Stream Input**

Integrated SAW filtering improves in-band carrier-to-noise performance and signal

04**Web-Based Management**

Supports configuration and firmware upgrades through Network Management

05**Output Level**

Includes PID remapping, CA PID filtering and PSI/SI information editing for

06**Flexible Installation**

PLL frequency locking and double-conversion design provide accurate and

Application Note

A professional RF headend transmodulator for converting selected DVB-S/S2 satellite and IP services into digital RF output channels. It is designed for MATV systems, hospitality TV networks and commercial buildings where stable coaxial distribution and centralised channel management are required.

Technical Specifications

RF INPUT & OUTPUT

Input Sources	2 x HDMI 1.4 per module
Input Input Protocols	Up to 1920 x 1080p60
SIGNAL Output Format	32 / 44.1 / 48 kHz, 384 kbps
RF Output	75Ω F-Female, 50–870 MHz agile

STREAM PROCESSING

Output Level	≥100 dBμV
Signal Processing	SAW filtering, PLL locking, double conversion
Management	NMS configuration and firmware upgrade
Installation	Modular headend chassis

GENERAL

Input Interface	2 x HDMI 1.4 per module
Input Resolution	Up to 1920 x 1080p60
Audio Encoding	32 / 44.1 / 48 kHz, 384 kbps
RF Output	75Ω F-Female, 50–870 MHz agile
Output Level	≥100 dBμV
Signal Processing	SAW filtering, PLL locking, double conversion
Management	NMS configuration and firmware upgrade

