

Analog Agile Demodulator

MIDM



The MIDM is a professional quality agile audio/video demodulator and is intended for both CATV and VHF & UHF analog applications. The unit is in a "single width" Die-Cast housing that allow deployment of up to 12 demodulator units in a MIRC-12 chassis.

The MIDM demodulates standard CATV, IRC and HRC channels and is capable for "Cherry Picking" of CATV channels in preparation for remodulation. The input frequency range is agile, allowing selection of any CATV channel from 54 to 806 MHz. Baseband audio and video are provided as outputs. It is ideal for off-air signal processing (audio/video processing and remodulation) applications. Baseband audio and video are provided as outputs. The MIDM features rock solid, phase lock loop (PLL) synthesized frequency control. Agile frequency selection is accomplished via front panel channel up/down buttons with a LED channel readout for easy on-the-fly channel changes. A channel lockout mode is also provided to prevent accidental channel changes. Non-volatile memory maintains the programmed channel selection in case of power loss. The MIDM is compatible with any modulators requiring a baseband input, and can be used in any combination with the MIPS-12C power supply in a MIRC-12 chassis.

○ Features & Benefits

- Die-Cast Chassis Offers Superior Protection Against Ingress or Egress
- Demodulates Any Channel 54-806 MHz
- LED Display Makes Agile Channel Selection Easy
- Compatible with MICM-45 Modulator for Compact Off-Channel Analog Processor Solution

○ Specifications

RF

Frequency: Range:
54-806 MHz, VHF, UHF, CATV (Std., IRC, HRC)

Input Level Range: -5 to +30 dBm VHF/UHF,
+2 to +12 dBmV (CATV)

Noise Figure: 8 dB

Image Rejection: VHF 60 dB

Input Impedance: 75 Ω

Video

Output Level: 1.0 V p-p

Output Impedance: 75 Ω

Audio

Output Level: 1 Vp-p

Output Impedance: 600 Ω , Unbalanced

General

Power Requirements - External:
12 VDC @ 140 mA
5 VDC @ 150 mA

Temperature Range: 0° to +50° C

Mechanical

Dimensions (W x H x D):
1.0 x 3.5 x 7.50 in.
29 x 89 x 191 mm

Weight: 1.2 lbs., 0.56 kg

Connectors/Impedance

Audio Output: RCA Female

Video Output: 75 Ω , "F" Female

RF Input: 75 Ω , "F" Female

Power: Locking Header, 3 Pin

Controls

Channel Selection: Push Buttons

ANT/CATV: Push Button

Power On/OFF: Push Button

Channel Lock: Push Button

Audio Level: Control

Video Level: Control

Indicators

Channel: 2 Digit, 7 Segment LED

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Refer to product instruction manual for additional specification measurements and notes.

○ Ordering Information

Model	Stock No.	Description
MIDM-806C	7740C	HE-12 Series Agile Audio/Video Demodulator 54-806 MHz UHF/VHF/CATV Input (STD,HRC,IRC)