

# Agile Demodulator

HE-12/HE-4 Series - MIDM

Headend



The MIDM is a professional quality agile audio/video demodulator and is intended for both CATV and VHF & UHF 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 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 Ohm

### Video

Output Level: 1.0 V p-p  
Output Impedance: 75 Ohm

### Audio

Output Level: 1 Vp-p  
Output Impedance: 600 Ohm, Unbalanced

### General

Power Requirements - External:  
12 VDC @ 140 mA  
5 VDC @ 150 mA  
Temperature Range: 0° to +50° C

### Mechanical

Dimensions (WxHxD):  
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 Phono, Female  
Video Output: 75 Ohm "F" Type, Female  
RF Input: 75 Ohm "F" Type, 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: Pot  
Video Level: Pot

### Indicators

Channel: 2 Digit, 7 Segment LED

## ○ 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)