

# HE Series

## Modular Headend System - MIDM



The MIDM series are professional quality agile audio/video demodulators. They are specifically designed for use with the HE-12 line of Modular Headend Systems. The MIDM-806C is intended for both CATV and VHF & UHF applications. The unit is housed in a "single width" Die-Cast housing that allow deployment of up to 12 demodulator units in a MIRC-12 chassis. The MIDM-series 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 series 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. All MIDM series units are 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

Input Frequency Range: 54-806 MHz VHF, UHF  
Channels: CATV, Standard, IRC or HRC  
Input Level - Range: 5 to +30 dBmV  
Noise Figure: 8-11 dB  
Image Rejection  
VHF: 65 dB  
UHF: 50 dB  
Input/Output Impedance: 75 ohm

#### Video

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

#### Audio

Output Level: 1.0 V p-p  
Impedance - Unbalanced: 600 ohm

#### General

Power Requirements  
Voltage: +12 VDC  
Current: 200 mA  
Power: 2.5 W  
Temperature Range: 0 to +50 °C

#### Mechanical

Dimensions (WxHxD):  
1.15 x 3.5 x 7.50 in  
29 x 89 x 191 mm  
Weight: 0.65 lbs, 0.30 kg

#### Connectors (Rear Panel)

RF input: "F" Type, Female  
Video Output: "F" Type, Female  
Audio Output: RCA Phono, Female  
Power: Header, 3 Pin

#### Controls (Front Panel)

Channel Selection: Push buttons  
Video Level: Control  
Audio Level: Control

#### Indicators (Front Panel)

Power ON: LED, Green

### ○ 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)