

**MPD-CPS**Requires Power Supply/Controller  
(Sold Separately)

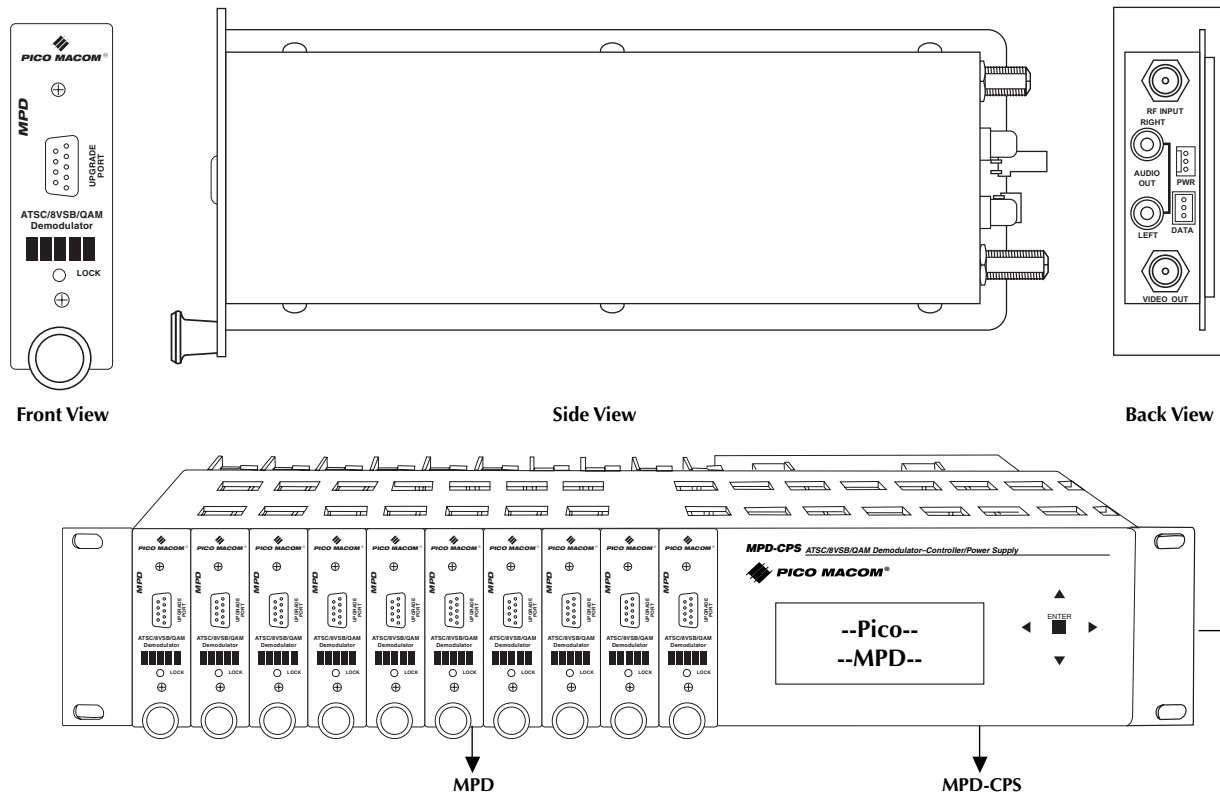
# MPD

 | ATSC/8VSB/QAM Demodulator

The **Pico Macom MPD** demodulator provides a cost-effective solution for digital-to-analog conversion. The **MPD** will accept an 8VSB or unencrypted QAM digital RF signal and convert it to baseband video and left and right stereo audio outputs. The **MPD** demodulator can receive all of the 18 ATSC video formats, including HD video, and convert them for display on both analog and digital television sets.

## Features

- Decodes 8VSB, 64 QAM and 256 QAM (Annex B) digital RF signals in the frequency range 54 to 860 MHz.
- High Density design, up to 10 MPD modules in 2 RU.
- Stereo output.
- Front panel indicator LED to monitor input 8VSB or QAM signal lock.
- Easily configured power controller allows individual channel mapping and automatic scanning of individual modules.
- Convenient front panel channel selection for channel and demodulation mode settings.
- Equipped with short and long equalizer taps to eliminate multi-path effects.
- Decodes all 18 ATSC video formats.
- Input voltage between 90-260Vac.
- Supports IRC and HRC offsets.
- One F-connector video output and two stereo RCA left and right audio outputs provided at the back of the unit.
- Extremely low power consumption.
- Nonvolatile memory for easy channel recall in the event of power failure.



## Specifications

### MPD

#### Input - QAM

|                  |                                       |
|------------------|---------------------------------------|
| Mode:            | 64 & 256 QAM Annex B                  |
| Data rate:       | 26.9 Mbps QAM 64<br>38.8 Mbps QAM 256 |
| Input connector: | 75 ohm F-female                       |
| Frequency range: | 54 to 860 MHz                         |
| Channel range:   | Ch. 2 - 135                           |
| Input AGC range: | -35 to 30dBmV                         |
| Impedance:       | 75 ohm                                |
| Input connector: | F-female                              |

#### Input - 8VSB

|                  |                             |
|------------------|-----------------------------|
| Frequency range: | 54 to 806 MHz               |
| Channel range:   | VHF Ch. 2 - 13, UHF 14 - 69 |
| Data rate:       | 19.4 Mbps                   |
| Input AGC range: | -35 to 30dBmV               |
| Modulation:      | 8VSB                        |
| Impedance:       | 75 ohm                      |
| Input connector: | F-female                    |

#### Output - Video NTSC

|                  |                       |
|------------------|-----------------------|
| Frequency range: | DC to 4.2 MHz         |
| Output level:    | 1 V p-p               |
| Impedance:       | 75 ohm                |
| Video format:    | 480i NTSC             |
| Aspect ratio:    | 4:3, 16:9 (PAN, SCAN) |

### Output - Analog Stereo Audio

|                  |                     |
|------------------|---------------------|
| Audio level:     | 1 V p-p             |
| Audio control:   | Adjustable          |
| Frequency range: | 50Hz to 19kHz       |
| Connectors:      | RCA, left and right |

### General

|                   |                               |
|-------------------|-------------------------------|
| DC input voltage: | 5 and 12 Vdc                  |
| MPD Power:        | 5Vdc @ 300mA<br>12Vdc @ 200mA |
| Dimensions:       | 1.025"W x 3.465"H x 8.70"D    |
| Weight:           | 0.8 lbs.                      |

### MPD-CPS

|             |                                     |
|-------------|-------------------------------------|
| Input:      | 100-240Vac, 50/60Hz, 2.0A max.      |
| Output:     | +5Vdc, 4.5A max.; +12Vdc, 3.0A max. |
| Dimensions: | 6.2"W x 9.05"D x 3.47"H             |
| Weight:     | 4 lbs.                              |

## Ordering Information

|                                                 |
|-------------------------------------------------|
| MPD - ATSC/8VSB/QAM Demodulator                 |
| MPD-CPS - Power Supply/ Controller              |
| MPC-12C - Mini-Mod Chassis                      |
| MOR-CS - Cooling Fan System                     |
| PHC-12G - 12 Channel (Passive Headend Combiner) |