

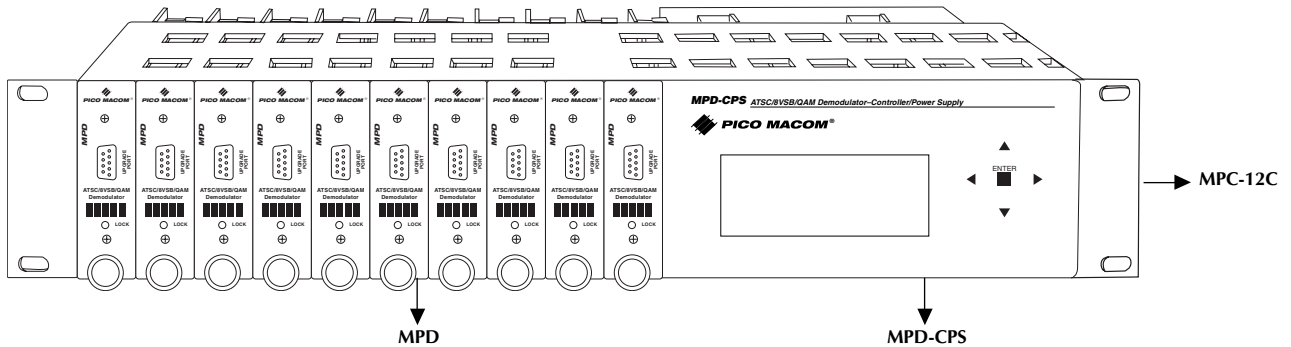
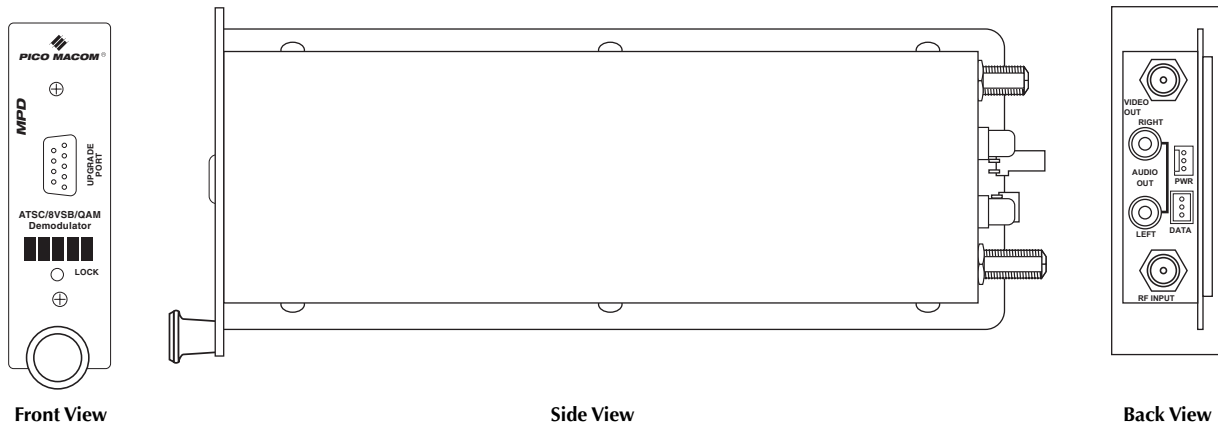


MPD | ATSC/8VSB/QAM Demodulator

The Pico Macom **MPD** demodulator provides a cost-effective solution for digital-to-analog conversion. The **MPD** will accept an unencrypted 8VSB or 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 non-digital TV sets over analog channels.

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

Input - QAM

| | |
|------------------|---------------------------------------|
| Mode: | 64 & 256 QAM Annex B |
| Data rate: | 26.9 Mbps QAM 64 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: | 4801 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: | 5Vc @ 300mA 12Vc @ 200mA |
| MPD-CPS: | |
| Input: | 100-240Vac, 50/60Hz |
| Power: | 80 W |
| Dimensions: | 1.025"W x 3.465"H x 8.70"D |
| Weight: | 0.80 lbs. |

Ordering Information

MPD - ATSC/8VSB/QAM Demodulator
MPD-CPS - Power Supply/ Controller
MPC-12C
MOR-CS
PHC-12G