

Minirack Headend System

RMM12 MINIRACK HEADEND SYSTEM CHASSIS SPECIFICATIONS	
MECHANICAL	
Dimensions:	3.5" H x 19" W x 9.4"D (89 mm H x 482 mm W x 239 mm D).
Weight:	2.4 lbs (1.1 kg)
RMM4 MINIRACK HEADEND SYSTEM CHASSIS SPECIFICATIONS	
MECHANICAL	
Dimensions:	1.75" H x 19" W x 8.5"D (44 mm H x 482 mm W x 216 mm D).
Weight:	2.8 lbs (1.3 kg)
PSM121 MINIRACK POWER SUPPLY SPECIFICATIONS	
GENERAL	
Power Requirements:	100-240 VAC (and $\pm 10\%$ of end limits)
Frequency:	50-60 Hz
AC Input Power:	75 Watts
Operating Temperature Range:	0° to 50° Celsius (32° to 122° Fahrenheit), ambient
Output Voltages:	+5 VDC @ 4.75 Amps maximum +12 VDC @ 3.0 Amps maximum
MECHANICAL	
Dimensions:	3.5" H x 4.2"W x 9.4" D (89 mm H x 107 mm W x 239 mm D).
Weight:	2.6 lbs (1.2 kg)
CONNECTORS	
AC Input:	IEC Type
DC Output:	37 pin "D" type
Fuse (Internal, AC Input):	Internal fuse on AC input; 2A, 250V, SLO-BLO, 5-20 mm Power supply assembly employs short circuit and over-voltage protection.

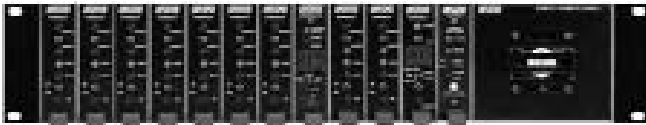


Minirack Headend System

The Drake Minirack Headend system features a flexible, modular approach for the reception and redistribution of signals for CATV and Private Cable.

RMM12

Minirack Headend System Chassis



The minirack headend system is a state of the art compact modular headend system allowing maximum use of rack space. The RMM-12 Chassis with its PSM121 Power Supply allows the mounting of up to 12 modulators or other devices in 3-1/2" of rack space. The RMM-12 chassis accommodates any combination of VMM-600, VMM-860 and/or VMM-860AG Agile Modulators, DMM-806 Demodulators, MMTS20 Stereo Encoders, TUM714 Sub-Band Upconverters or a vast range of similar units from other manufacturers.

RMM4

Minirack Headend System Chassis



The RMM4 is a 1RU rack mount carriage with a built-in power supply. The assembly accepts up to four mini modules, such as Video Modulators, Video or Audio Switching Modules, etc.

The power supply features a universal input voltage switching power supply with attached 115 VAC line cord and four separate DC output cables with polarized 3-circuit connectors.

PSM12

Minirack Power Supply



The PSM121 minirack power supply is an air cooled switching type power supply designed to power the modules of the Drake minirack products. It mounts in the RMM12 rack enclosure and powers up to 12 modulator, demodulator, video display, video switching or audio switching devices.

VMM860AG Agile Video Modulator



The VMM860AG is an agile, high quality, vestigial sideband, heterodyne audio/video modulator with synthesized visual and aural carriers. One to twelve modulators or other accessories can be mounted in the same amount of rack space typically required for two standard size units. Ideally suited for private cable, hotels and motels, institutional, and SMATV applications, the VMM860AG accepts video and audio baseband signals from a satellite receiver, TV camera, videotape recorder, TV demodulator, or similar signal sources. Convenient Pushwheel Switches for Channel Selection.

- Convenient Pushwheel Switches for Channel Selection
- Standard CATV channels 2 - 135 or Broadcast channels 2 - 69 selectable from front panel
- IRC & HRC CATV channel formats selectable by internal jumper
- Stereo ready utilizing BTSC stereo baseband. Rear panel pre-emphasis disable switch provided
- Agility allows for "hot standby" solutions in headends
- Agility allows for minimal service stock
- An Economical NTSC vestigial sideband modulator
- +45 dBmV output. Adjustable from +35 to +45 dBmV
- SAW filtering for superior adjacent channel performance
- Front panel control of RF output level, A/V ratio, and video/audio modulation.
- Complies with FCC Rules Part 76
- Use up to 12 VMM860AG modulators in a two rack height space powered by a single PSM121 Power Supply
- Use up to 4 VMM860AG modulators in a one rack height space by using the RMM4 Rack and Power Supply
- Rack mount and high capacity PSM121 Power Supply sold separately

Also available in stereo - VMM860AS

VMM600 & VMM860 Video Modulator



The R.L. Drake mini-rack system is a professional quality, modular headend system, designed to optimize rack space. The VMM600 and VMM860 are high quality, fixed channel, heterodyne audio/video modulators. One to twelve can be mounted in the same amount of rack space typically required for two standard size units. Ideally suited for private cable, hotel/motel, institutional, and SMATV applications, the VMM600 and VMM860 accept standard NTSC video and audio baseband signals from a satellite receiver, TV demodulator, or similar signal source.

- Low-cost NTSC modulator
- +45 dBmV output. Adjustable from +30 to +45 dBmV
- SAW filtering for superior adjacent channel performance
- Front panel control of RF output level, A/V ratio, and video/audio modulation
- Complies with FCC Rules Part 76
- Rack mount and power supply sold separately

DMM806 Agile Video Demodulator

The Drake DMM806 Video Demodulator is a professional quality agile television demodulator that provides an audio and video output from any VHF, UHF, or CATV channels (54 - 806 MHz). The standard single rack-unit design permits convenient pairing with a Drake Professional Video Modulator to perform off-air or CATV channel processing.

- Low cost NTSC demodulator
- Synthesized reception of off-air TV channels 2 through 69, and CATV channels 2 through 125; selection set by a front panel pushwheel switch
- Fixed 1.0 Vp-p NTSC standard negative sync video output, adjustable audio output level
- Defeatable de-emphasis for passing stereo and SAP signals to a Drake modulator
- Wide range AGC
- Low distortion synchronous detection



MMTS20 Stereo Encoder

The R.L. Drake MMTS20 Stereo Encoder is part of the Drake Mini-Rack family designed to optimize rack space. The MMTS20 is an MTS stereo encoder which accepts left and right audio inputs and generates a composite BTSC format stereo signal. The composite signal is applied to the audio input of a compatible audio/video modulator. The modular design permits convenient pairing with a mini-rack modulator such as the VMM600, VMM806, or VMM806AG in a multiple unit rack configuration.

- High quality, economical MTS stereo encoder
- Greater than 20dB stereo separation
- Convenient front panel audio level control and indicator permit setting of proper audio levels
- Front panel test tone switch allows easy calibration of stereo separation and minimizes installation time
- Pilot lock indicator verifies that the encoder is properly synchronized.
- Modulators, rack mount and power supply sold separately



TUM714 Block Upconverter for Conversion of T Channels

The R.L. Drake TUM714 block upconverter is designed to receive the block of CATV channels in the range of 5 - 54 MHz. (channels T7 - T14) and convert those signals to EIA channels 7 - 13 and channel 23. Input and output levels as high as +30 dBmV may be used, nominally with unity gain. The typical application for this device is to receive a remotely originated channel and convert it so it may be fed into a video recorder or demodulator. Minirack packaging allows this product to be intermixed with other related products in a 4 or 12 slot configuration.

- An inexpensive method of returning remotely originated programming to the headend
- Upconverts 5 - 54 MHz - by 168.25 MHz
- Usable at high +30 dBmV input level
- Suitable for use with digital or analog signals
- Modulators, demodulators, stereo encoder, rack mount and power supply sold separately

