



## FM Radio Multichannel FM Stereo System

Model FMS-3000



The Meret FMS-3000 FM Stereo System is a modular concept in FM stereo generation/modulation, providing compact utilization of rack space. The FMS-3000 system can hold up to six stereo generator/modulator modules in each 5¼" chassis. In addition, output combining is provided within the chassis.

The basic module of the FMS-3000 system is the model 3304 stereo generator/modulator. The 3304 produces a L-R double sideband suppressed carrier signal, with a L+R signal and a crystal controlled 19 kHz pilot carrier. The resulting output is a multiplexed signal, FM modulated in the 87-108 MHz band. The 3304 is completely agile, field tunable in steps of 100 kHz.

The front panel of each 3304 has a four level LED display of modulation, along with controls for adjusting the FM deviation and RF carrier level. A test point is also provided for ease of monitoring.

The 3304 offers high quality FM stereo performance with a frequency response of  $\pm 0.5$  dB from 50 Hz to 15 kHz, and greater than 35 dB of separation between 50 Hz and 10 kHz. The unit can be operated as a mono unit by changing jumpers internally.

### APPLICATIONS

- CATV
- Broadband networks
- LAN
- Campus networks
- Low power broadcast

### FEATURES

- Up to 6 FM stereo channels in a single 5¼" chassis
- SCA compatible
- Frequency agile-field tunable
- Front panel monitoring and set-up
- Excellent stereo separation

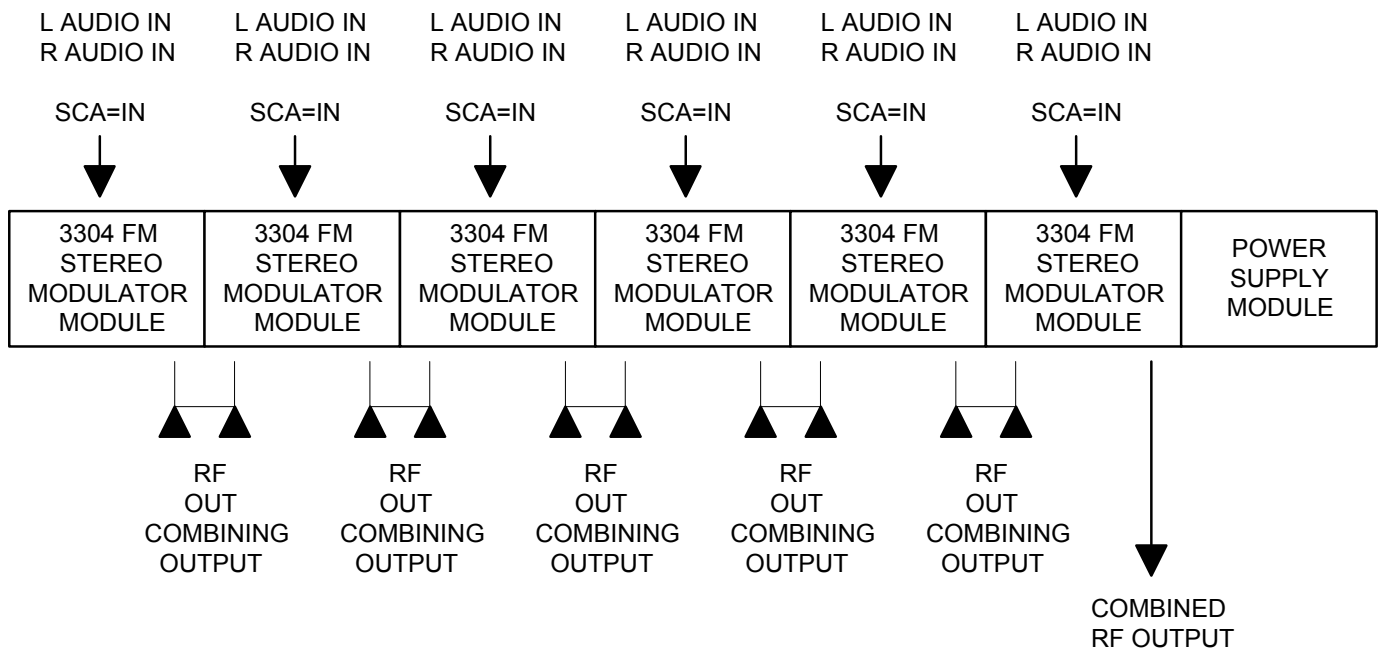
### BENEFITS

- Compact design
- Internal output combining
- Field tunable
- Cost effective

# Specifications

Audio Input	
Input	Left and right baseband audio
Input impedance	600 ohms, balanced or unbalanced, or high impedance
Input level	-10 dBm, APL
Preemphasis	75 µsec. nominal, 50 µsec., or flat
Frequency response	50 Hz to 15 kHz, ±0.5 dB
Stereo separation	> 35 dB, 50 Hz - 10 kHz > 30 dB, 10 kHz - 15 kHz
Harmonic distortion	<0.5% @ 1 kHz
RF output frequency	88-108 MHz in 100 kHz steps or 108-120 MHz in 100 kHz steps
Frequency stability	±0.002%
Output level	+ 30 to + 50 dBmV, adjustable
Deviation	±75 kHz
Signal-to-noise	> 60 dB
Spurious	> -60 dBc

Electrical/Mechanical	
Ambient temperature	10 to 40°C, full specifications 0 to 50°C, operational
Humidity	95% non-condensing
Size	19"W x 5.25"H x 18"D 48.26cm x 13.34cm x 45.72cm
Power Requirements	105-125 VAC, 50/60 Hz 210-240 VAC, 50/60 Hz 110 Watts maximum
Weight	35 lbs.; 15.9 kg.



Specifications are subject to change without notice