

MT-4E Series

Repeater and Base Station



Operation

The MT-4E Series is a modular system based on a 19 inch subrack platform consisting of a signal routing motherboard and 3RU rack mounting chassis. Hot-swap capable RF and control modules are arranged in the subrack housing to create a multitude of different repeater and base station system configurations to suit any communications need.

Key Features

- Environmentally and Mechanically Robust
- Low-Current Operation
- Modular and Customizable
- Flexible Configuration and Interface Paths
- Standards Based, Vendor-Neutral Operation

Technical Specifications

Channel Capacity

- 32

Channel Spacing

- 12.5/15/25/30 kHz

Primary Input Power

- 13.8 VDC

Weight

- 18 lbs

Signalling Options

- CTSS
- NAC
- TGID

Interfacer Options

- 4-Wire
- P25 Digital FSI
- ISSI
- CSSI

Dimensions

- 21" H x 19" W x 20" D

Frequency Ranges:

- 136-174 MHz
- 380-520 MHz
- 768-869 MHz
- 896-960 MHz

Transmitter

RF Output Power

- 0.5W-8W Exciter 30W, 60-110W

Max Duty Cycle:

- 100%

Transmitter Current Drain

- < 2.5A

Modulation:

- Analog FM,
- C4FM

Spurious/Harmonics:

- -70 dBc

FM Hum & Noise:

- >38 dB

Frequency Stability -30°C TO 60°C (PPM)

- VHF: 1ppm
- UHF: 0.5ppm
- 700/800/900: 0.1ppm

Audio Distortion

- VHF/UHF: <2%
- 700/800/900: <3%

Receiver**RX Class A Current Drain**

- ≤ 250 mA

RX Class B Current Drain

- ≤ 115 mA

Sensitivity

- <-118 dBm

Selectivity

- < 75 dB

Spurious/Image Rejection

- < 90 dB

Intermodulation

- < 80 dB

Squelch Sensitivity

- -121 to -115 dBm

Audio Response

- +1,-3 dB

Audio Distortion

- 2%

RX Frequency Stability @ -30° TO 60° C (PPM)

- VHF: ± 1ppm
- UHF: ± 0.5ppm
- 700/800/900: ± 0.1ppm

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