

# MT-4E Repeater & Base Station

SPEC SHEET

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.

## FEATURES

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

## Specifications

### Dimensions (HxWxD)

Metric: 53.34 x 48.26 x 50.80 cm

Imperial: 21 x 19 x 20 in

### Operating Temperature

-30°C to +60°C

### Weight

Metric: 8.2 kg

Imperial: 18 lbs

<b>Channel Capacity</b>	32
<b>Channel Spacing</b>	12.5/15/25/30 kHz
<b>Primary Input Power</b>	13.8 VDC
<b>Signalling Options</b>	CTSS NAC TGID 4-Wire
<b>Interfacer Options</b>	P25 Digital FSI ISSI CSS
<b>Frequency Ranges</b>	136-174 MHz 380-520 MHz 768-869 MHz 896-960 MHz

### TRANSMITTER

<b>RF Output Power</b>	0.5W-8W Exciter 30W, 60-110W
<b>Max Duty Cycle</b>	100%
<b>Transmitter Current Drain</b>	< 2.5A



<b>Modulation</b>	Analog FM C4FM
<b>Spurious/Harmonics</b>	-70 dBc
<b>FM Hum &amp; Noise</b>	>38 dB
<b>Frequency Stability -30°C TO 60°C (PPM)</b>	VHF: 1ppm UHF: 0.5ppm 700/800/900: 0.1ppm
<b>Audio Distortion</b>	VHF/UHF: <2% 700/800/900: <3%
<b>RECEIVER</b>	
<b>RX Class A Current Drain</b>	≤ 250 mA
<b>RX Class B Current Drain</b>	≤ 115 mA
<b>Sensitivity</b>	< -118 dBm
<b>Selectivity</b>	< 75 dB
<b>Sensitivity</b>	< -118 dBm
<b>Spurious/Image Rejection</b>	< 90 dB
<b>Intermodulation</b>	< 80 dB
<b>Squelch Sensitivity</b>	-121 to -115 dBm
<b>Audio Response</b>	+1, -3 dB
<b>Audio Distortion</b>	2%

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