

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

Channel Capacity	32
Channel Spacing	12.5/15/25/30 kHz
Adjacent Channel Rejection	>= 60dB
Receiver Sensitivity	<= -118dBm
Primary Input Power	13.8 VDC
Signalling Options	CTSS NAC TGID 4-Wire
Interfacer Options	P25 Digital FSI ISSI CSS
Frequency Ranges	136-174 MHz 406 - 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
Sensitivity	< -118 dBm
Spurious/Image Rejection	< 90 dB
Intermodulation	< 80 dB
Squelch Sensitivity	-121 to -115 dBm
Audio Response	+1, -3 dB
Audio Distortion	2%

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