



AE Transcom Private Ltd

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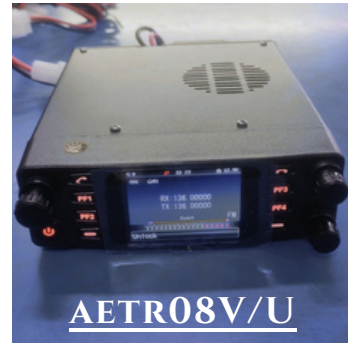
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MOBILE RADIO

Brand: Radiocom

Model: AETR08V/U (50W / 40W)



AETR08V/U

SPECIFICATIONS

GENERAL	Parameters	Specification
1.1	Frequency Range	VHF/UHF (Organisation may specify)
1.2	TDMA	2 – Slot
1.3	Channel Capacity	255 or more (Set with display)
1.4	Channel Spacing	12.5 KHz
1.5	Operating Voltage	10.8 V to 15.6 VDC
1.6	Protection	a) Reverse polarity protection b) protection against high VSWR
1.7	Frequency Stability	±1.5 PPM or better
1.8	Antenna Impedance	50Ω
1.9	Weight	Less than 2 kg
1.10	EMI/EMC	ETSI EN 301 489-1 & ETSI 301 489-5/
1.11	Air Interface Standards	Shall be open standards DMR Tier -II
1.12	SFR	Yes
1.13	Bluetooth	Yes
1.14	Recorder	Yes

TRANSMITTER		Parameters	Specification
2.1		RF Power Output	5 to 25 Watts or more (programmable)
2.2		FM Emission	11K0F3E, 7K60FXE, 7K60FXD, 7K60FXW
2.3		Digital Modulation	4FSK
2.4		Modulation Limiting	±2.5 KHz @ 12.5 KHz
2.5		FM Hum & Noise	-40 dB or better
2.6		Adjacent Channel Power	-60 dBc or better
2.7		Audio Response	+1, -3 dB
2.8		Audio Distortion	Less than 3%
2.9		Digital Vocoder	AMBE +2
2.10		Communication Security (Optional)	System should have in built encryption and should also have provision to support 3rd party Encryption.
RECEIVERS		Paramaters	Specification
3.1		Sensitivity (Analog)	0.30 μV (12dB SINAD) or better
3.2		Sensitivity (Digital)	0.30 μV at 5% BER or better
3.3		Adjacent Channel Selectivity	60 dB or better
3.4		Inter-modulation	70 dB or better
3.5		Audio Output	Minimum 3 W
3.6		Audio Distortion	Less than 3%

ENVIRONMENTAL	Parameters	Specification
4.1	Operating Temperature	-30°C to +55°C
4.2	Storage Temperature	-40°C to +70°C
4.3	Humidity	95% Max. at 40°C Non-condensing
4.4	Vibration	MIL-STD-810 F/G
4.5	Shock & Drop	MIL-STD-810 F/G
4.6	Water Intrusion & Dust	MIL-STD-810 F/G or IP-54
4.7	Salt	MIL-STD-810 F/G
4.8	Rain	MIL-STD-810 F/G
4.9	Low Pressure	MIL-STD-810 F/G

FULLY COMPLIANT WITH MHA SPECIFICATIONS

- Fully compliant with Ministry of Home Affairs (MHA) specifications:
- Letter No. H-18026/1(TS&TD)/2016-CDN, Govt. of India, Directorate of Coordination, Police Wireless, dated 17th January 2018.

MAKE IN INDIA

- Classified under Make in India – Class 1 Category
- Manufacturing from Component level.
- SMT Operations will be in India.
- All components sourced from countries in compliance with Ministry of Finance Office Memorandum No. F.18/37/2020-PPD, dated 8th February 2021.

NOTE - Whenever there is a difference in parameters between Home Ministry Specs and Tender Specs, the Home Ministry Specs will prevail.

