

Rugged • Robust • Voice Only

**T-S8107** mobile

### **T-S8107:**

10-Channel Conventional Radio  
with 1 Digit Channel Display

The T-S8107 is the latest addition to the TM8000 range of mobile radios providing a rugged reliable entry level model to add to the already popular series of radios. The T-S8107 supplies the ideal solution to those end users requiring the reliability and robustness supplied by Tait mobile radios but requiring a voice only radio.



#### **Standard Features:**

- Comprehensive Selcall Functionality
- DTMF Encoder
- Built-in CTCSS/DCS
- Voice Inversion Encryption
- 1 Scanning/Voting Group
- Multiple Scanning and Voting Formats Supported
- Emergency Mode, Stun and Revive
- Low Stand-by Power Consumption
- Four RF Power Levels
- Three Mute Settings



## T-S8107 Specifications

### General

Frequency Range	136-174MHz 400-470MHz
Frequency Stability	+/-1.5ppm above 100MHz +/-2.5ppm below 100MHz
Channel Capacity	10 channels (simplex or semi-duplex)
Power Supply	10.8-16VDC
Channel Spacing	12.5/20/25kHz
Channel Increment	7.5/12.5/15/20/25/30kHz
Dimensions (LxWxH)	175 x 160 x 50mm (6.9 x 6.3 x 2.0in)
Weight	1.4kg (51oz)
Operational Temperature	-30°C to +60°C (-22°F to +140°F)
Sealing	Passes dust and rain testing to IP54

### Military Standards 810 F\*

Applicable MIL-STD	Method	Procedure
Low pressure	500.4	2
High Temperature	501.4	1 & 2
Low Temperature	502.4	1 & 2
Temperature Shock	503.4	1
Solar Radiation	505.4	1
Rain	506.4	3
Humidity	507.4	1
Salt Fog	509.4	1
Dust	510.4	1
Vibration	514.5	1
Shock	516.5	1 & 5

\* Also meets equivalent MIL-STD C, D & E standards.

RF Connector	50 Ohm BNC/mini UHF
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### Transmitter

Output Power	25W, 10W, 5W, 1W
Modulation Limiting	<+/-2.5kHz 12.5kHz <+/-4kHz 20kHz <+/-5kHz 25kHz
FM Hum and Noise	>38dB 12.5kHz >41dB 20kHz >43dB 25kHz
Conducted/Radiated Emissions	<-36dBm to 1GHz <-30dBm 1-4GHz below 500MHz <-30dBm 1-12.75GHz above 500MHz
Audio Response	300Hz-3kHz Flat or pre-emphasised
Audio Distortion	< 3% at 1kHz 60% modulation
Transmit Rise Time	<10ms
Duty Cycle	33% at 25W

### Receiver

Sensitivity	< -118dBm for 12dB SINAD
Intermodulation	>67dB
Selectivity	>65dB 12.5kHz >70dB 20kHz >75dB 25kHz
Spurious Responses	>72dB
Audio Distortion	<3% at 1kHz 60% modulation
Hum and Noise	>40dB 12.5kHz >41dB 20kHz >43dB 25kHz
Audio Response	300Hz-3kHz Flat or de-emphasised

Authorised Dealer



Tait is your complete supplier of radio communications equipment, with mobile, portable and infrastructure solutions. Tait is renowned for its flexibility, responsiveness and commitment to producing innovative world-class mobile radio communications products.

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. For further information please check with your nearest Tait office or authorised dealer. Tait Electronics Ltd is an ISO9001: 2000 and ISO 14001: 1996 certified supplier.

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