



TM8250 CONVENTIONAL MOBILE RADIO

The robust, high performance TM8250 mobile radio is the ideal choice for fast-moving mobile teams who rely on instant voice and data communications.

Intuitive interface

- Large LCD display 14 characters x 4 lines of alphanumeric text
- User-friendly menu structure for easy navigation
- Four programmable function keys
- Optional keypad microphone for enhanced dialling capability

Flexible communications

- 1,500 conventional channels with built-in CTCSS and DCS
- Data capable supports 1200 baud FFSK data as standard
- Internal high speed data modem software option
- 300 scanning/voting groups and 26 channel zones
- Full Selcall functionality
- Displays and supports short data messages via CCDI (Computer Controlled Data Interface)
- Voice inversion scrambling

TAIT: THE RIGHT FIT

• MDC 1200 Encode - software option

Advanced system integration capabilities

- Multiple auxiliary ports and expansive internal options area
- Direct Connect GPS and GPS display option

TM8250

Control head options

The remote head option allows the user to mount the TM8250 control head away from the radio body, allowing greater vehicle installation flexibility. The TM8250 also supports a dual control head configuration, allowing the radio to be shared with other users.

Engineered to be tough

The TM8250 meets stringent reliability specifications, including MIL-STD 810 C, D, E, F and IP54.

Software feature upgrades

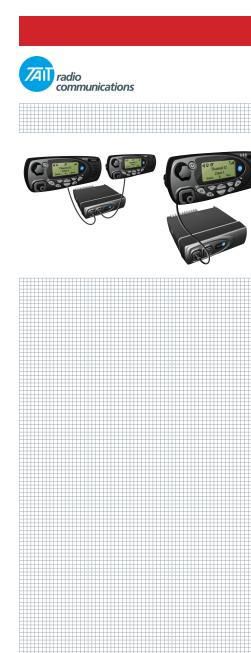
The Software Feature Enabler (SFE) allows users to upgrade with additional functionality at any stage by simply purchasing the appropriate software license key.

Improved data integrity

The application of Digital Signal Processor (DSP) technology optimises RF performance and ensures fast and reliable data processing.

Ease of integration

The system integrator has maximum design flexibility with multiple ports for auxiliary connectors and a large options board area. The comprehensive third party developer's kit provides integrators with hardware and software tools to facilitate customisation.





All values quoted are typical. Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. Some features are enabled but can depend on network deployed. * Please note that not all frequency bands and power outputs are available in all markets. For further information please check with your nearest Tait authorised dealer or at www.taitworld.com.

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AUTHORISED DEALER

TM8250 Specifications

	D. 1	Openetional E		Trees
VHF	Band A4	Operational Frequency 66-88MHz		Transmit Power ⁺ 25W
****	B1	136–174MHz		25W
	B1	136–174MHz		50W
	C0	174-225MHz		25W
	D1	216-266MHz		25W
UHF	G2	350-400MHz		40W
	H5	400-470MHz		25W
	H5	400-470MHz		40W
	H6	450-530MHz		25W
	H7	450-520MHz		40W
		Transmit	Receive	
700/800MHz	K5	762–776MHz	762–776MHz	
		792-825MHz		35W (>806MHz)
		850-870MHz	850-870MHz	30W (<806MHz)
Frequency Stability	±1.5ppm			
Channel/Network Capacity		tional Channels		
	300 Scan/Vo	ote Groups		
Power Supply	10.8-16VDC			
	12.5/20/25k			
Channel Spacing				
Channel Increment	/.5/12.5/15/	20/25/30kHz		
Dimensions (DxWxH)	405	0 (7.0 ··· 7.0 ··· 0.7: ·)		
25W 30/35/40/50W		0mm (7.3 x 7.2 x 2.8in) ′0mm (8.1 x 7.2 x 2.8in)		
	200 X 102 X 1	01111 (U.1 X 7.6 X 6.0111)		
Weight 25W	1.4kg (49.4oz	1		
30/35/40/50W	1.6kg (56.4oz			
Operational Temperature		, D°C (-22°F to +140°F)		
Sealing	IP54			
-		on Mini LIUT		
RF Connector	50 ohm BNC			
Interface Connectors	3 Interface (Connectors with Serial Ports		
Internal Speaker Output	>3W			
Military Standards 810 F*				
Applicable MIL-STD	Method		Procedure	
Low Pressure	500.4		2	
High Temperature	501.4		1, 2	
Low Temperature Temperature Shock	502.4 503.4		1, 2 1	
Solar Radiation	505.4		1	
Rain	506.4		1, 3	
Humidity	507.4		1	
Salt Fog	509.4 510.4		1	
Dust Vibration	510.4		1	
Shock	516.5		1,6	
ALSO MEETS EQUIVALENT SUPERSEDED MIL-	010 010 C, D & E.			
Transmitter				
	VHF/UHF (T	IA/EIA)	700/800MHz (TIA/E	IA)
Dutput Power				
25W	25W, 12W, 5\	V, 1W		
30W 35W			30W, 15W, 5W, 2W 35W, 15W, 5W, 2W	
40W UHF	40W, 20W, 15	W. 10W	30 VV, 10 VV, 5 VV, 2 VV	
50W VHF	50W, 25W, 15			
Modulation Limiting				
12.5kHz	±2.5kHz		±2.5kHz	
			±4kHz	
20kHz	±4kHz			
20kHz 25kHz	±4kHz ±5kHz		±5kHz	
20kHz 25kHz FM Hum and Noise	±5kHz		±5kHz	
20kHz 25kHz FM Hum and Noise 12.5kHz				
20kHz 25kHz FM Hum and Noise	<u>±5kHz</u> -38dB		±5kHz -33dB	
20kHz 25kHz FM Hum and Noise 12.5kHz 20kHz 25kHz 25kHz	±5kHz -38dB -41dB	GHz	±5kHz -33dB -38dB	
20kHz 25kHz FM Hum and Noise 12.5kHz 20kHz 25kHz 25kHz	±5kHz -38dB -41dB -43dB		±5kHz -33dB -38dB -40dB	
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**Meets class A except 1/2 IF at bottom 4MHz of 700MHz sub-band (69dB) and TOP 4MHz of 800MHz sub-band (66dB).