



## TM8260 DUAL BAND CONVENTIONAL MOBILE RADIO

The TM8260 provides a flexible solution for conventional radio communications in mission-critical situations. The TM8260 facilitates interoperability and co-operation between different emergency services.

### Intuitive interface

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

### Flexible communications

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

### Advanced system integration capabilities

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

### Improved collaboration

The TM8260 can operate as a cross-band repeater, where transmissions received on one radio can automatically be transmitted on the other. The user can also receive and transmit simultaneously on two separate frequency bands without the need for manual switching. These features ensure reliable communication between a control centre and personnel at an incident scene and between the different emergency services in attendance.

### Engineered to be tough

The TM8260 meets stringent reliability specifications, including MIL-STD 810 C, D, E, F and IP54.

### Software feature upgrades

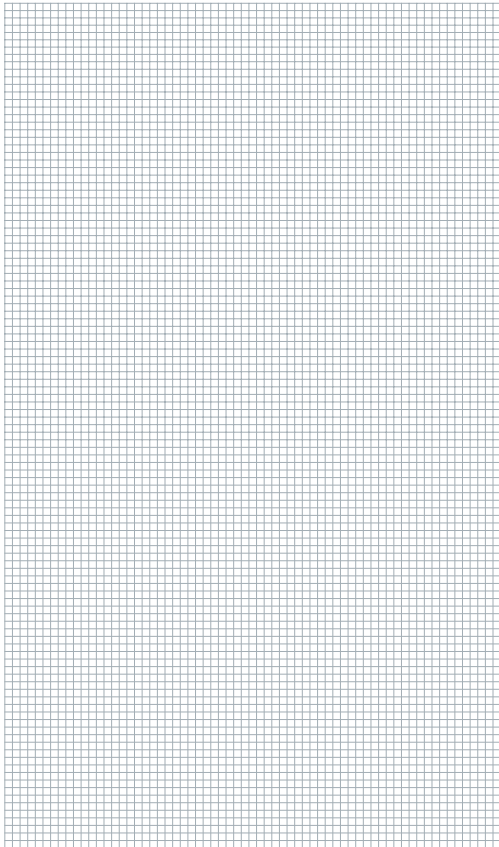
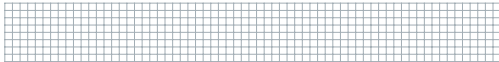
The Software Feature Enabler (SFE) allows users to upgrade with additional functionality at any stage by simply purchasing the appropriate software license key.

### Improved data integrity

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

### GPS location display (SFE option)

GPS location information, such as latitude, longitude, course and speed can be viewed on the control head display. This may be supplemented by the display of map reference data in various formats, e.g. UTM, RTC.



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](http://www.taitworld.com).

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# TM8260 Specifications

## General

	Band	Operational Frequency	Transmit Power*	
VHF	A4	66-88MHz	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	
	700/800MHz	K5	<b>Transmit</b> 762-776MHz 792-825MHz 850-870MHz	<b>Receive</b> 762-776MHz 850-870MHz 35W (>806MHz) 30W (<806MHz)
			Frequency Stability	±1.5ppm
Channel/Network Capacity	1500 Conventional Channels 300 Scan/Vote Groups			
Power Supply	10.8-16VDC			
Channel Spacing	12.5/20/25kHz			
Channel Increment	7.5/12.5/15/20/25/30kHz			
Dimensions (DxWxH) Control Head	50 x 182 x 70mm (2.0 x 7.2 x 2.8in)			
Dimensions (DxWxH) Radio Body	25W 30/35/40/50W			
Weight Control Head	0.4kg (14oz)			
Weight Radio Body	25W 30/35/40/50W			
Operational Temperature	-30°C to +60°C (-22°F to +140°F)			
Sealing	IP54			
RF Connector	50 ohm BNC or Mini UHF			
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	5014	1, 2
Low Temperature	5024	1, 2
Temperature Shock	5034	1
Solar Radiation	5054	1
Rain	5064	1, 3
Humidity	5074	1
Salt Fog	5094	1
Dust	5104	1
Vibration	5145	1
Shock	5165	1, 6

\* ALSO MEETS EQUIVALENT SUPERSEDED MIL-STD 810 C, D & E.

## Transmitter

	VHF/UHF (TIA/EIA)	700/800MHz (TIA/EIA)
Output Power		
25W	25W, 12W, 5W, 1W	
30W		30W, 15W, 5W, 2W
35W		35W, 15W, 5W, 2W
40W UHF	40W, 20W, 15W, 10W	
50W VHF	50W, 25W, 15W, 10W	
Modulation Limiting		
12.5kHz	±2.5kHz	±2.5kHz
20kHz	±4kHz	±4kHz
25kHz	±5kHz	±5kHz
FM Hum and Noise		
12.5kHz	-38dB	-33dB
20kHz	-41dB	-38dB
25kHz	-43dB	-40dB
Conducted/Radiated Emissions		
	-36dBm < 1GHz -30dBm > 1GHz	< -30dBm to 8GHz
Audio Response Bandwidth	300Hz-3kHz	300Hz-3kHz
Audio Response	Flat or pre-emphasised	Flat or pre-emphasised
Audio Distortion	< 3% at 1kHz 60% deviation	< 3% at 1kHz 60% deviation
Transmit Rise Time	20ms	20ms
Duty Cycle		
25W	33%	
30/35W		20%
40/50W	20%	

## Receiver

	VHF/UHF (TIA/EIA)	700/800MHz (TIA/EIA)
Sensitivity	<-118dBm (0.28 µV) for 12dB SINAD	-120dBm (0.22µV) for 12dB SINAD <-116dBm (0.35µV) for 20dB SINAD
Intermodulation	75dB	82dB
Selectivity		
12.5kHz	65dB	67dB
20kHz	70dB	75dB
25kHz	75dB	79dB
Spurious Responses	75dB	> 90dB**
Hum and Noise		
12.5kHz	-40dB	-44dB
20kHz	-41dB	-47dB
25kHz	-43dB	-48dB
Audio Response Bandwidth	300Hz-3kHz	300Hz-3kHz
Audio Response	Flat or de-emphasised	Flat or de-emphasised
Audio Distortion	< 3% at 1kHz 60% deviation	< 3% at 1kHz 60% deviation

\*\*Meets class A except 1/2 IF at bottom 4MHz of 700MHz sub-band (69dB) and TOP 4MHz of 800MHz sub-band (66dB).