



## 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 cooperation between different emergency services.

### Intuitive interface

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

### Flexible communications

- 1500 conventional channels with built-in CTCSS and DCS
- 300 scanning/voting groups
- Crossband linking and dual transmit and receive
- Data capable - supports 1200/2400 baud FFSK data as standard
- Internal high speed data modem (12 kbps on NB channels/19.2 kbps on WB channels) (software option)
- Full Selcall functionality
- Displays and supports short data messages via CCDI (Computer Controlled Data Interface)
- Voice inversion scrambling
- Lone Worker function to improve worker safety

### 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 crossband 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 center and personnel at an incident scene and between the different emergency services in attendance.

### Engineered to be tough

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

### Software feature upgrades

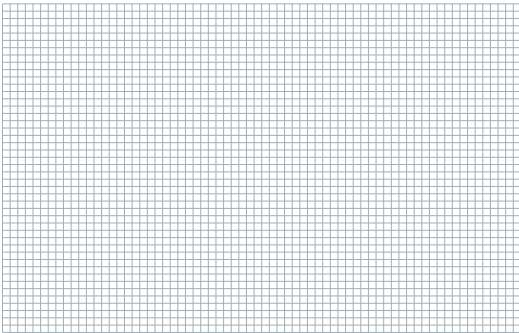
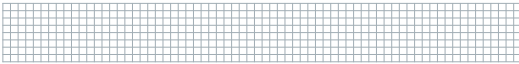
The Software Feature Enabler (SFE) allows system operators to upgrade with additional functionality at any stage by simply purchasing the appropriate software license key.

### 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.



### Regulatory Data

	Frequency	FCC Description	IC Description
25W	136-174	CASTMAB1C	737A-TMAB1C
	216-266	CASTMAD1C	
	400-470	CASTMAH5C	737A-TMAH5C
	450-530	CASTMAH6C	737A-TMAH6C
35W	806-869	CASTMAK5D	737A-TMAK5D
40W	400-470	CASTMAH5D	
	450-520	CASTMAH7D	
50W	136-174	CASTMAB1D	



ISO 9001  
ISO 14001

\* Also meets equivalent superseded MIL-STD 810 C, D & E.

\*\* Meets class A except where indicated.

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

All values quoted are typical. Tait is your complete supplier of radio communications equipment offering 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.

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AUTHORIZED DEALER

# TM8260 Specifications

## General

	Band	Operational Frequency	Transmit Power	
VHF	A4	66-88MHz	25W	
	B1	136-174MHz	25W	
	B1	136-174MHz	50W	
	D1	216-266MHz	25W	
UHF	G2	360-400MHz	40W	
	H5	400-470MHz	25W	
	H5	400-470MHz	40W	
	H6	450-530MHz	25W	
	H7	450-520MHz	40W	
	700/800MHz	K5	Transmit 762-776MHz	30W (<806MHz) 35W (>806MHz)
			792-825MHz	
850-870MHz				
900MHz	L3	896-941MHz	30W	
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	2.0 x 7.2 x 2.8in (50 x 182 x 70mm)			
Dimensions (DxWxH) Radio Body	25W			
	30/35/40/50W			
Weight Control Head	14oz (0.4kg)			
Weight Radio Body	25W			
	30/35/40/50W			
Operational Temperature	-22°F to +140°F (-30°C to +60°C)			
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	501.4	1, 2
Low Temperature	502.4	1, 2
Temperature Shock	503.4	1
Solar Radiation	505.4	1
Rain	506.4	1, 3
Humidity	507.4	1
Salt Fog	509.4	1
Dust	510.4	1
Vibration	514.5	1
Shock	516.5	1, 6

## Transmitter

	VHF/UHF (TIA/EIA)	700/800MHz (TIA/EIA)
Output Power	25W, 12W, 5W, 1W	30W, 15W, 5W, 2W 35W, 15W, 5W, 2W
Modulation Limiting	±2.5kHz 12.5kHz 20kHz ±4kHz ±5kHz	±2.5kHz ±4kHz ±5kHz
FM Hum and Noise	12.5kHz 20kHz 25kHz	-38dB -41dB -43dB
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	33%	20%
	25W 30/35W 40/50W	

## Receiver\*\*

	VHF/UHF (TIA/EIA)	700/800MHz (TIA/EIA)
Sensitivity	0.28µV (<-118dBm) for 12dB SINAD	0.22µV (-120dBm) for 12dB SINAD 0.35µV (<-116dBm) for 20dB SINAD
Intermodulation	75dB	82dB
Selectivity	12.5kHz 20kHz 25kHz	65dB 70dB 75dB
Spurious Responses	75dB	> 90dB***
Hum and Noise	12.5kHz 20kHz 25kHz	-40dB -41dB -43dB
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