TM**8260**

SPECIFICATIONS

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Flexible, reliable and user friendly.

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

KEY FEATURES

▶ 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

▶ 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

▶ Multiple auxiliary ports and expansive internal options area

▶ Direct connect GPS and GPS display option

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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.

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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	350–400MHz		40W
	H5	400–470MHz		25W
	H5	400–470MHz		40W
	H6	450–530MHz		25W
	H7	450–520MHz		40W

	Band	Transmit	Receive	
700/800MHz	K5	762–776MHz	762–776MHz	30W (<806MHz)
		792–825MHz		35W (>806MHz)
		850–870MHz	850–870MHz	
900MHz	L3	896–941MHz	935–941MHz	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
	6.9 x 6.3 x 2.1in (175 x 160 x 52mm)
	7.7 x 6.3 x 2.1in (195 x 160 x 52mm)

Weight Control Head	14oz (0.4kg)

Weight Radio Body
    25W
    30/35/40/50W
	42.3oz (1.2kg)
	49.4oz (1.4kg)

Operational Temperature	-22°F to +140°F (-30°C to +60°C)
Sealing	IP54
RF Connecter	50 ohm BNC or Mini UHF
Interface Connecters	3 Interface Connecters with Serial Ports
Internal Speaker Output	>3W

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
		67dB
		75dB
		79dB

Spurious Responses	75dB	> 90dB***

Hum and Noise
    12.5kHz
    20kHz
    25kHz
	-40dB
	-41dB
	-43dB
		-44dB
		-47dB
		-48dB

Audio Response Bandwidth Audio Response	300Hz–3kHz Flat or de-emphazised	300Hz–3kHz Flat or de-emphazised
Audio Distortion	< 3% at 1kHz 60% deviation	< 3% at 1kHz 60% deviation

TRANSMITTER

	VHF/UHF (TIA/EIA)	700/800MHz (TIA/EIA)
Output Power		
25W	25W, 12W, 5W, 1W	
30W		
35W		30W, 15W, 5W, 2W
40W UHF	40W, 20W, 15W, 10W	35W, 15W, 5W, 2W
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-emphazised	Flat or pre-emphazised
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%	

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

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	

Authorized Partners

* 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).

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.

+Please note that not all frequency bands and power outputs are available in all markets. For further information please check with your nearest Tait office or authorized dealer.

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