

Rugged • High Speed Data • Integrator Friendly

TM8260 mobile

The Tait 8000 Series of innovative and high-performing products set a standard of excellence for analogue radio communications technology. With advanced software-flexible features, 8000 Series products lead their class.

25/40/50W Dual Band Conventional Mobile Radio

- Dual Receive and Transmit
- Cross-band Linking
- 1500 Conventional Channels
- Remote Mounted Control Head
- Large Alphanumeric Display
- GPS Location Display*
- Easy-to-Use Menu
- Robust RF Performance
- Rugged Construction to Strict Standards
- Digital Signal Processor Design



* software option

TM8260 mobile

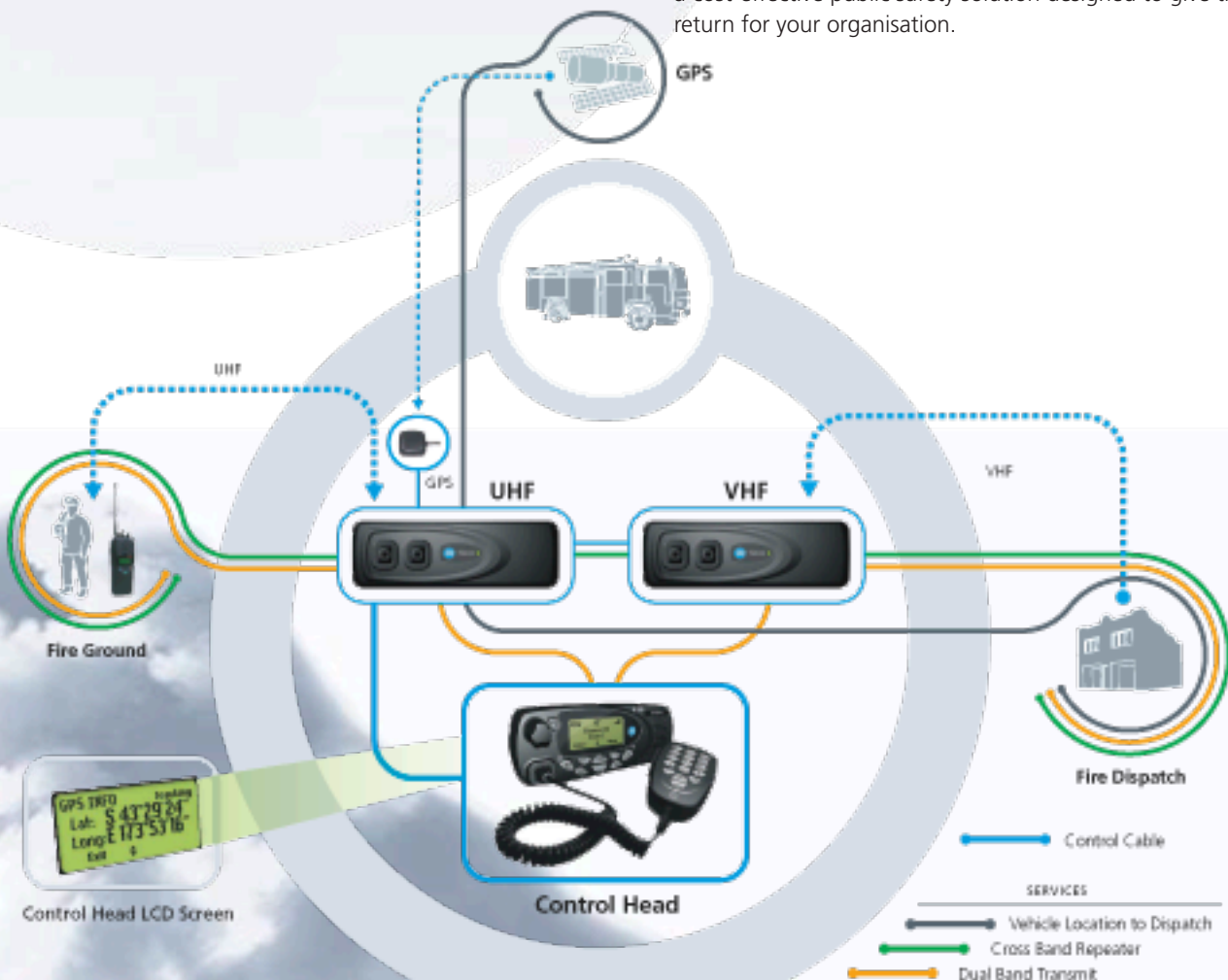
The TM8260 dual band radio system is ideal for public safety incident management where cost-effective interoperability between different groups of personnel is essential.

The high performance TM8260 system provides a flexible solution for conventional radio communications in mission-critical situations. It features dual radio bodies offering an extended frequency range, controlled by a single control head.

With features such as cross-band linking and the ability to receive and transmit simultaneously on two frequency bands, the TM8260 enables emergency services to have reliable and effective communications in any situation.

This system not only assists in co-operation between different services, it enables supervisors to gain an overview and control of the front line and connectivity to control centres.

Backed by more than 30 years of Tait experience, knowledge and support, the TM8260 is much more than just a radio. It is a cost-effective public safety solution designed to give the best return for your organisation.



TM8260 Dual Radio System

Features

Easy to Read Display

The powerful TM8260 control head features a large alphanumeric display, providing clear information for users such as emergency response teams who rely on communications to stay in control of highly unpredictable situations.

The easy-to-read display enables users to clearly and easily view channel information, including text, icons and even GPS location information. The services supported by the system are clearly indicated, such as cross-band linking and dual transmit.

The TM8260 also features four function keys that can be programmed for fast one-touch access to commonly used features.

Intuitive Menu Structure

This radio features a comprehensive user-friendly menu that allows easy navigation of all functions, including channel access, display settings, dual transmit and receive, and cross-band repeater mode.

Dual Transmit and Receive

In a TM8260 system, two separate frequency bands can be monitored simultaneously with no manual switching needed. Users can also transmit to two separate groups of personnel at the same time, such as two emergency services working together in an incident situation. In normal operation the system can also be programmed to work as a single radio.

Cross Band Linking

The TM8260 can operate as a cross-band repeater, where transmissions received on one radio can automatically be transmitted on the other. This would ensure reliable communication between a control centre and personnel at a fire scene, with no need to man and relay messages through the fire appliance.

1500 Conventional Channels

Each radio in a TM8260 dual band system supports 1500 conventional channels and 300 scanning and voting groups. This makes it an ideal communications solution where many radio frequencies are deployed to provide communication between different emergency services.

Remote Mounted Control Head

The control head for the TM8260 system is mounted separately to the two radio bodies, allowing more flexibility for vehicle installers particularly where space is limited. The remote control head can be mounted up to six metres away from the radio bodies.

GPS Location Display (Optional)

The TM8260 system can be connected to a GPS receiver, to improve safety and efficiency where independent groups of users are working together. When the radio is loaded with optional GPS software, 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 in various formats e.g. UTM, RTC.

Robust RF Performance, Rugged Construction

The TM8260 has been developed using innovative RF design and includes a number of features to maintain operation even under harsh conditions.

The radio has been engineered with a strong diecast metal chassis and almost entirely constructed using Surface Mount Technology (SMT). It is IP54 rated and meets stringent specifications for reliability including MIL-STD 810 C, D, E & F.

Advanced System Integration Capabilities

This radio has been designed with customisation in mind. System integrators have maximum design flexibility with multiple ports for auxiliary connectors and a large options board area. A comprehensive range of development kits is supported, which provide hardware and software tools for customisation.

Optional Features:

- Locking Security Cradle
- High Speed Data Modem
- GPS Location Display
- Power Supply



TM8260 Specifications

General

Frequency Range*	VHF	Standard	High Power
	UHF	136-174MHz	136-174MHz
		400-470MHz	400-470MHz
		450-530MHz	450-520MHz
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	7.5/12.5/15/25/30kHz		
Dimensions (LxWxH)	185 x 182 x 70mm (7.3 x 7.2 x 2.8in)		
	205 x 182 x 70mm (8.1 x 7.2 x 2.8in)		
Weight	1.5kg (53oz)		
	1.7kg (59oz)		
Operational Temperature	-30°C to +60°C (-22°F to +140°F)		
Sealing	Passes dust and rain testing to IP54		
RF Connector	50 ohm BNC		
	50 ohm BNC or Mini UHF		
Interface Connectors	3 Interface Connectors with Serial Ports		

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, 5

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

Regulatory Data

	Frequency	FCC Description
25W	136-174	CASTMAB1C
	400-470	CASTMAH5C
	450-530	CASTMAH6C
40W	400-470	CASTMAH5D
	450-520	CASTMAH7D
50W	136-174	CASTMAB1D

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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 authorised dealer.

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Authorised Dealer



Transmitter

Output Power	25W	VHF	25W, 10W, 5W, 1W
	40W		40W, 20W, 15W, 10W
	50W		50W, 25W, 15W, 10W
Modulation Limiting	12.5kHz	VHF	±2.5kHz
	20kHz		±4kHz
	25kHz		±5kHz
FM Hum and Noise	12.5kHz	-38dB	
	25kHz	-43dB	
Conducted/Radiated Emissions		-36dBm <1GHz	
		-30dBm >1GHz	
Audio Response		300Hz-3kHz Flat or pre-emphasised	
Audio Distortion		3% at 1kHz 60% modulation (typical)	
Transmit Rise Time		10ms	
Duty Cycle		33% at 25W	
		20% at 40/50W	

Receiver

Sensitivity	VHF/UHF	<-118dBm for 12dB SINAD (0.28µV)
Intermodulation		67dB
Selectivity	12.5kHz	65dB
	20kHz	70dB
	25kHz	75dB
Spurious Responses		72dB
Hum and Noise	12.5kHz	-40dB
	25kHz	-43dB
Audio Response		300Hz-3kHz Flat or de-emphasised
Audio Distortion		3% at 1kHz 60% modulation (typical)

* Please contact your nearest Tait office or authorised dealer for further frequency band combinations.