



First responders around the world trust Tait for multi-agency coordination in the most challenging environments.

The flexible TM9400 mobiles offer both analog and digital modes including P25 Phase 2, and strong encryption management capability.

Improve workforce safety with smart features such as Location Services*, Tait GeoFencing, and Lone Worker functionality.

Supercharge the performance of your TM9400 with Tait Unified Vehicle options to provide edge computing and applications processing, WiFi vehicle area networks and LTE connectivity.**



TM9455





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Hand Held Control Heads

* Not all features are supported in all models or modes of operation. Contact Tait or an authorized channel partner for more details.

** Please refer to Tait Unified Vehicle documentation, or contact Tait or an authorized channel partner for more details.











FEATURES AND BENEFITS

Delivers on the P25 standards

Benefit from the spectral efficiency, multi-vendor interoperability, security, migration and data capability demanded by the P25 standards.

- TIA-102 P25 CAP tested and certified, providing multi-vendor interoperability
- 12.5kHz P25 Phase 1 FDMA and 6.25kHz equivalent P25 Phase 2 TDMA capable
- FCC and IC compliances include P25 Phase 2 emission designator (8K10F1W)

Designed for demanding environments

Designed with users to ensure effective every-day operation

- IP54 rated: protected against dust and splashing water
- Exceeds MIL-STD-810G
- Large four-line LCD with icons to display key parameters
- Configurable to suit your needs: dual head (Large or Hand Held Control Head) and remote mount 19ft and 40ft (6m and 12m) options
- Four programmable function keys on the Large Control Head, six programmable function keys on the Hand Held Control Head, including a programmable orange emergency key

Color Options

- TM9400 mobile Hand Held Control heads are available in black, yellow, green and red, and Large Control Heads in black, yellow, and green.
- Different color options make it easier for workgroups to identify their equipment in the field.

High-performing, voice communications

Robust design delivers clear, mission-critical voice communications

- Future proof multi-mode flexibility offering analog, P25 Phase 1 conventional/trunked and P25 Phase 2 trunked
- Automatic dual mode between analog and P25 Phase 1 conventional
- Programmable power level options
- Option to operate with dual band functionality
- Clear communication with P25 AMBE+2 enhanced digital vocoder and digital noise suppression software
- Voting ensures priority selection of the channel with optimum receive quality
- Dynamic regrouping and supergroup operation for mission-critical workforce management
- Analog and P25 Two-Tone Paging can be used to trigger pre-programmed actions
- Increased channel capacity with up to 2,000 channels
- Scanning modes include: priority, dual priority, in-zone, Talkgroup scanning, and background scan

Efficient, security-focused management

Tait management facilities and applications allow you to efficiently manage your radio fleet

- OTAR (Over-the-air Rekeying)
- Compatible with Tait EnableProtect Key Fill Device (KFD) for quick, reliable encryption key programming
- Programming application for efficient fleet programming
- Compatible with Tait EnableProtect Advanced System Key to allow administrators to authorize and restrict subscriber units on their network

Keeping your people safe

- Supports end-to end encryption, including AES encryption
- Lone Worker, covert microphone (Large Control Head only) and stealth emergency mode as standard
- Tait GeoFencing option for automated location based behavior
- Radio inhibit and uninhibit to allow management of radios during vehicle servicing
- Trunked failsoft reverts to conventional operation during trunked network failure
- Blast Alarms and Audible Alerts on P25 conventional and Selcall channels

Effective operations with voice and data

- Support for a variety of simulcast modes such as LSM and C4FM
- Pre-set status messages
- P25 data such as GNSS (GPS & GLONASS) location
- Conventional and trunked IP data
- Location services over a conventional and P25 Trunked network
- Over-the-air-programming (OTAP) with the industry-leading EnableFleet configuration management system delivers software and firmware changes over the Tait P25 Trunked radio network or WiFi, (when optional WiFi OTAP is fitted) making it faster, easier and more affordable to update and optimize the performance of radios in your fleet
- Options board space for Tait-developed or third-party options boards

TM9400 Accessories

Digital and analog interfaces allow a range of accessory options for the TM9400



TM**9400 SPECIFICATIONS**



GENERAL	
Frequency stability	±0.5ppm (-22°F to +140°F/-30°C to +60°C)
Channels/zones	1,000 channels/50 zones (2,000 channels/100 zones optional enhancement with software license)
Talk groups	1000 talk groups, up to 1,000 members total (2,000 members optional enhancement with software license)
Scan groups	300 with up to 50 members each, maximum of 2,000 members total
Power supply	10.8-16VDC
Active standby current	0.15A
Channel spacing	12.5/15/20/25/30kHz
Frequency increment	2.5/3.125/5/6.25
Dimensions (DxWxH)	
Control head	1.38 x 7.24 x 2.8in (35 x 184 x 71mm)
Radio body - 25W	6.9 x 6.3 x 2.1in (175 x 160 x 52mm)
Radio body - 30/35/50W	7.7 x 6.3 x 2.1in (195 x 160 x 52mm)
Weight	
Control head	0.73lb (0.33kg)
Radio body - 25W	2.6lb (1.2kg)
Radio body - 30/35/50W	3.1lb (1.4kg)
Supported Languages	English (default), German, French, Spanish, Portuguese, Czech, Russian, Polish, Bulgarian
Operating temperature	-22°F to +140°F (-30°C to +60°C)
Water and dust protection	IP54
RF connector	50 ohm BNC or mini UHF
Interface connectors	3 programmable interface connectors providing serial ports and GPIO lines for radio and accessory control, and audio connectivity
Signaling options (analog)	MDC1200 encode and decode, Two Tone decode, PL (CTCSS), DPL (DCS), Selcall

TRANSMITTER**	VHF	VHF	UHF	700/800MHZ		
Frequency range	136-174MHz	136-174MHz	378-470MHz (HK)* 400-470MHz (H5)¤	762-870MHz		
			450-520MHz (H7)			
Transmit power	25W, 10W, 5W, 1W	50W, 25W, 15W, 10W	25W, 10W, 5W, 1W	<806MHz: 30W, 25W, 10W,		
			40W, 20W, 15W, 10W	2W >806MHz: 35W, 25W, 10W, 2W		
Transmit current	5.5A max.	10.5A max	(25W, 10W, 5W, 1W) <6A	10A max		
			(40W, 20W, 15W, 10W) <10.5A (<7A)^			
Modulation limiting						
12.5/15kHz channel	±2.5kHz	2.5kHz	2.5kHz	±2.5kHz		
25/30kHz channel	±5kHz	±5kHz	±5kHz	±5kHz		
FM Hum and noise (Analog)						
12.5kHz channel	-45dB	-45dB	-40dB	-40dB		
25kHz channel ¹	-48dB	-48dB	-45dB	-45dB		
Radiated and conducted emissions	-85dBc	-80dBc	-80dBc	-80dBc		
Audio response (Analog)	+1/-3dB	+1/-3dB	+1/-3dB	+1/-3dB		
Audio distortion (Analog)	1.5% @ 1kHz, 60% deviation					
Duty cycle	25W: 2min Tx, 4min Rx for 8 hrs @ +140°F (+60°C)					
	35/50W: 1min Tx, 4min Rx for 8 hrs @ +140°F (+60°C)					
	5W: continuous @ +104°F (+40°C)					

**Contact your local Tait representative for more information.

* 40W model only. * 40W HK model only. ¤ 25W model only.





TM**9400** SPECIFICATIONS



RECEIVER**	VHF	UHF	700/800MHZ	
Frequency range	136–174MHz	378-470MHz 400-470MHz ³ 450-520MHz	762-776MHz 850-870MHz	
Sensitivity (Analog)				
12dB SINAD	0.22uV (-120dBm)	0.22uV (-120dBm)	0.28uV (-118dBm)	
Sensitivity (P25)				
5% BER	0.22uV (-120dBm)	0.22uV (-120dBm)	0.22uV (-120dBm)	
Intermodulation rejection (P25 TIA-102)	76dB	75dB	75dB	
Adjacent channel rejection				
12.5kHz (P25) TIA-102	60dB	60dB	60dB	
25kHz TIA-603 (2-tone)	73dB	70dB	70dB	
Spurious response rejection (P25) TIA-102	80dB	80dB	80dB	
Residual audio noise ratio (P25) TIA-102	45dB	45dB	45dB	
FM hum and noise				
12.5kHz channel	-45dB	-40dB	-40dB	
25kHz channel ¹	-48dB	-45dB	-45dB	
Audio distortion (3W rated audio)	1.5% at 1kHz 60% mo	dulation		
Optional external speaker output	10W (into 4 ohm)			

MILITARY STANDARDS 810C, D, E, F AND G

Applicable MIL-STD Method	Method	Procedure	Applicable MIL-STD Method	Method	Procedure
Low Pressure	500.5	2	Humidity	507.5	2
High temperature	501.5	1,2	Salt Fog	509.5	1
Low temperature	502.5	1,2	Sand & Dust	510.5	1, 2
Temperatureshock	503.5	1	Vibration	514.5	1
Solar radiation	505.5	1	Shock	516.5	1,5,6
Rain	506.5	1,3			

REGULATORY DATA	USA (FCC)	CANADA (ISED)	EUROPE/UK (CE) ³	AUSTRALIA/NEW ZEALAND (AS/NZ) ³
VHF (136-174MHz)	~	<i>y</i>	~	~
UHF (378-470MHz and	~	~	~	√ 2
400-470MHz)				
UHF (450-520MHz)	~	~	(-	√ ²
700/800MHz	~	~		12
900MHz	~	~		-

**Contact your local Tait representative for more information.

¹Wideband operation is not available in the USA in some bands.

² The 25W UHF band radios are approved for use in Citizen Band in Australia and New Zealand when programmed to meet the requirements of AS/NZS4365. Tait cannot guarantee full performance to the published specifications when the 400-470MHz band radios is operating at the CB frequencies.

³ 25 Watt models only.

TAIT P25 PHASE 2 SOLUTION

Backed up by our proven radio network expertise, the TM9400 Mobile Radio is part of our larger P25 Phase 2 offering. This solution consists of terminals, infrastructure, applications, services and integration with third party interfaces to ensure that your organization can reap all the benefits of the spectrally-efficient P25 standard.

Tait has taken every care in compiling this specification sheet, but we're always innovating and therefore changes to our models, designs, technical specification, visuals and other information included in this specification sheet could occur. For the most up-to-date information and for a copy of our terms and conditions please visit our website www.taitradio.com.

For further information please check with your nearest Tait office or authorized dealer.

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Tait International Limited facilities are certified for ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System) and ISO 45001:2018 (Occupational Health and Safety Management System) for aspects associated with the design, manufacture and distribution of radio communications and control equipment, systems and services. In addition, all our Regional Head Offices are certified to ISO 9001.













