



TM9155 P25 Mobile radio shown in optional dual head configuration

P25 TRUNKED AND CONVENTIONAL MOBILE RADIOS

With recognized encryption testing, certified interoperability, digital audio clarity and superb build quality the TM9155 is a tough, dependable and sophisticated mobile radio.

Interoperable, flexible, configurable

- FIPS 140-2 certified encryption
- Tested in DHS-approved P25 Compliance Assessment Program (P25 CAP) lab for interoperability and performance
- Radios can be used on analog, P25 conventional, trunked and simulcast networks
- Simplified System Key prevents 'unregistered' radios from being added to the network without prior consent
- Custom head colors, lenses and keypad graphics can simply differentiate multiple radios in a vehicle
- · Secondary concealed microphone in control head
- Tested beyond MIL-STD 810C, D, E and F
- High temperature display option optimizes screen visibility in hot environments
- Lat/long coordinates displayed on screen (requires GPS receiver and SFE*)
- Program 1,000 channels, 300 scan groups and 30 tactical zones
- Comprehensive scanning features including P25 talk-group, priority, dual priority and editable scanning
- An extensive range of analog signaling features MDC1200 encode/ decode** and Two Tone decode with the purchase of SFEs*

*Software Feature Enabler option available separately **MDC1200 decode includes calling identity display and inhibit/uninhibit functionality

TM9155

Encryption for secure communications
AES encryption certified by the US
National Institute of Technology and
Standards (NIST) or proven DES
encryption can be incorporated into the
TM9155 for highly secure communications.
These radios can be encrypted fast
in-field with a Key Fill Device (KFD) or with
Over-The-Air-Rekeying (OTAR) via a

Flexible choices

Optional dual head configuration means the TM9155 can dynamically respond to vehicle and user needs.

Interoperability assured

The TM9155 is tested on other vendors' networks as part of the P25 Compliance Assessment Program (P25 CAP).
This offers public safety and government agencies a multi-vendor environment which can save taxpayers' money

Analog operation for phased transition
Protect your current analog investment
and migrate to P25 at your own pace.
Analog mode allows communication

Configure to suit with SFEs

Software Feature Enablers (SFEs) allow a solution that is readily extended as needs change, removing the risk of hardware upgrades and factory returns.

Trunking, P25 CAI, encryption, Application Programming Interfaces (APIs) and OTAR are just some of the SFE options available.

*For further information on the KMF, please contact you local Tait representative







Standard control head with keypad microphone



Local hand-held control head



Dual head configuration with STN LCD for use in warmer climates



Dual head configuration with FSTN LCD for use in cooler climates (a Control Head Interface Box is required)



Remote mounted standard control head



Being a manufacturer of digital and analog radios, base stations and network equipment means Tait has the solution focus to serve you better. Tait's P25 portables, mobiles and the hand-held control head all

	same intuitive i	nterface.
Regu	latory Data	
USA	VHF UHF	CFR 47 Parts 22, 90.210, 74, 90, 95 CFR 47 Parts 22, 90.210, 74, 95A, 90
	800MHz	CFR 47 Parts 22, 90

inada	RSS-119
rope	EN300 086, EN300 113 EN301 489

Canada		RSS-119		
Europe		EN300 086, EI EN301 489 EN60950	N300 113	
Australia/New 2	Zealand	AS/NZ54295		
Type Approval		FCC	Industrie Canada	NTIA
25W 30/35W	VHF UHF UHF	CASTMAB1E CASTMAH5E CASTMAH6E CASTMAK5F	737A-TMAB1E 737A-TMAH5E 737A-TMAH6E 737A-TMAK5F	
40W	UHF	CASTMAH5F CASTMAH7F	n/a n/a	350-400MHz** 380-420MHz**
50W	VHF	CASTMAB1F	n/a	136-174MHz**
110W (ERFPA)	VHF	CASTMAB1Z	n/a	

10K0F1D, 10K0F1E, 10K0F7D, 10K0F7E, 11K0F3E, 12K7F1D 16K0F3E, 6K60F3D, 7K70F1D 8K10F1D, 8K10F1E, 8K10F7D	110W (ERFPA) VHF	CASTMAB1Z n/a
8K10F/E, 9K60F2D	Emission Designators	10K0F7E, 11K0F3E, 12K7F1D 16K0F3E, 6K60F2D, 7K70F1D





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AUTHORIZED DEALER

TM9155 Specifications

THIS E SPECIFICE				
General				
Frequency Ranges	Frequency Band ⁺		Transmit Power	Transmit Current
VHF	136–174MHz		25W	<5.5A
	136-174MHz**		50W	<10.5A
	136-174MHz		110W	<30A
UHF	350-400MHz**		40W	<8.5A
	380-420MHz**		40W	<8.5A
	400-470MHz		25W	<6.5A
	400-470MHz		40W	<8.5A
	450-530MHz		25W	<6.5A
	450-520MHz		40W	<8.5A
700/800MHz	Transmit 762–776MHz 792–825MHz 850–870MHz	Receive 762–776MHz 850–870MHz	30W (<806MHz) 35W (>806MHz)	<10A <10A
			33W (>6U6WHZ)	<1UA
Frequency Stability		±1.5ppm (-22°F to 140°F/-30°C to 60°C)		
Channel /Talk-groups/Zones		1000 channels/26 talk-group lists x 50 members/30 zones		
Power Supply		10.8–16VDC		
Channel Spacing	12.5/15/20/25/30k	Hz		
Frequency Increment/Channel Steps	2.5/5/6.25	2.5/5/6.25		
Dimensions (DxWxH) Control Head	1.38 x 7.24 x 2.8in (3	1.38 x 7.24 x 2.8in (35 x 184 x 71mm)		
Dimensions (DxWxH) Radio Body 25W 30/35/40/50W 110W	6.9 x 6.3 x 2.1in (175 7.7 x 6.3 x 2.1in (195 14.6 x 9.8 x 5in (370	x 160 x 52mm)		
Weight Control Head	11.6oz (330g)	11.6oz (330g)		
Weight Radio Body 25W 30/35/40/50W 110W	42.3oz (1200g) 49.4oz (1400g) 296oz (8400g)			
Operational Temperature	-22°F to 140°F (-30	°C to 60°C)		
Sealing	IP54 dust and rain			
RF Connector	50 ohm BNC or Min	i UHF		
Interface Connectors	3 Interface Connec	tors with Serial Ports		

Military Standards 810F*

Applicable MIL-STD	Method 25/30/35/50/110W	Procedure 25/30/35/50W	Procedure 110W
Low Pressure	500.4	2	2
High Temperature	501.4	1, 2	2
Low Temperature	502.4	1, 2	2
Temperature Shock	503.7	1	1
Solar Radiation	505.4	1	_
Rain	506.4	1, 3	3
Humidity	507.4	1	_
Salt Fog	509.4	1	1
Dust	510.4	1	1
Vibration	514.5	1	1
Shock	516.5	1, 6	6

^{*} Also meets equivalent superseded MIL-STD 810C, D and E.

	VHF/UHF (TIA/EIA 102 and 603a)	700/800MHz (TIA/EIA 102 and 603a)	
Output Power			
25W	25W, 12W, 5W, 1W		
30W		30W, 15W, 5W, 2W	
35W	4000 4000 4500 4000	35W, 15W, 5W, 2W	
40W 50W	40W, 20W, 15W, 10W		
110W	50W, 25W, 15W, 10W 110W		
Modulation Limiting	22011		
25/30kHz channel	±5kHz	±5kHz	
12.5kHz channel	±2.5kHz	±2.5kHz	
M Hum & Noise	=======================================		
25/30kHz channel	-43dB	-40dB	
12.5kHz channel	-38dB	-33dB	
Conducted Emissions	-85dBc	-75dBc	
Audio Response (Analog)	300-3000Hz +1/-3dB		
Audio Distortion	< 3% at 1kHz 60% deviation		
Transmit Attack Time (TIA/EIA 102)	50mS		

		VHF 110W	700/800MHz
0.28µV (-118dBm)	0.315µV (-117dBm)	0.25µV (-119dBm)	0.28µV (-118dBm)
0.20μV (-121dBm)	0.233µV (-120dBm)	0.18µV (-122dBm)	0.18µV (-122dBm)
-75dB	-75dB	-70dB	-75dB
-75dB -65dB	-80dB -70dB	-75dB -65dB	-75dB -65dB
-75dB	-90dB	-70dB	-75dB
-43dB -40dB	-43dB -40dB	-43dB -40dB	-43dB -40dB
45dB	45dB	45dB	45dB
	-75dB -75dB -65dB -75dB -43dB -40dB	-75dB -75dB -75dB -80dB -65dB -70dB -75dB -90dB -75dB -90dB -43dB -43dB -40dB -40dB	-75dB -75dB -70dB -75dB -80dB -75dB -65dB -70dB -65dB -75dB -90dB -70dB -43dB -43dB -43dB -40dB -40dB -40dB

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

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**Tait confirms that this product model conforms with NTIA requirements.