

# Secure, dependable, and flexible.

With FIPS validated encryption, certified interoperability, digital audio clarity and superb build quality, the TP9155/60 are tough, dependable and sophisticated portable radios.

The TP9155/60 gives you the flexibility of working in digital, analog or auto sensing dual modes.

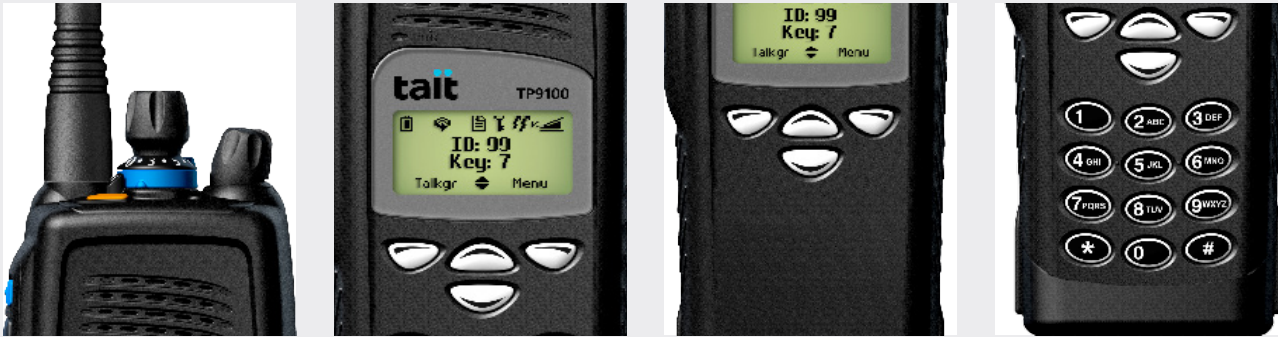


## KEY FEATURES

- ▶ Tested in a Department of Homeland Security-recognized P25 Compliance Assessment Program (P25 CAP) laboratory for interoperability and performance
- ▶ Radios can be used on analog, P25 conventional, trunked and simulcast networks
- ▶ A Non Incendive option for use in Class I Division 2 hazardous locations is available
- ▶ FIPS 140-2 certified encryption
- ▶ Tested beyond MIL-STD-810 C, D, E and F – Tait performs tougher drop tests, then performs ingress and other tests on the same radio
- ▶ Configurable emergency features - Man Down and Lone Worker as standard
- ▶ A range of analog signaling features - MDC1200 encode/decode\* and Two Tone decode with the purchase of software licenses\*\*
- ▶ Comprehensive scanning features including P25 talk group
- ▶ User interface is common with the Tait P25 mobiles for ease of use

\*MDC1200 decode includes calling identity display and inhibit/uninhibit functionality.

\*\*Software license option(s) available separately



## FEATURES AND BENEFITS

### Encryption for secure communications

AES encryption certified by the US National Institute of Standards and Technology (NIST) or proven DES encryption can be incorporated into the TP9155/TP9160 for highly secure communications.

These radios can be encrypted fast in-field with the Tait Key Fill Device (KFD) or via Over-the-air Rekeying (OTAR) with the Tait Key Management Facility (KMF).

### Tait Tough Radio

Reliable and durable TP9135/TP9140 portable radios have been built to withstand the accidental knocks and the extremes of nature.

Dual shot molding provides built-in shock absorption, while a unique and patented battery clasp mechanism eliminates threat of the battery dislodging when the radio is dropped.

### Interoperability assured

The TP9155/TP9160 portable radios are 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.

### Digital audio clarity

Crystal clear digital audio allows precise communications even in noisy environments.

### Analog operation for phased transition

Protect your current analog investment and migrate to P25 digital at your own pace.

Analog mode allows communication between various partner agencies.

### Configure to suit with software licenses

Software licenses allow a solution that is readily extended as needs change, removing the risk of hardware upgrades and factory returns.

Trunking, P25 CAI, encryption, location transmission/display\*, Application Programming Interfaces (APIs) and OTAR are just some of the software license options available.

\*Please contact your local Tait representative for more information.

### Comprehensive accessory suite

Complement your public safety radio with high performance accessories and charging options that will allow frontline staff to spend more time on patrol.



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 share the same intuitive interface.

## GENERAL

Frequency ranges	<b>Frequency band</b>
VHF	136–174MHz
	380–420MHz
UHF	400–470MHz
	450–530MHz
	<b>Transmit</b>
	762-776MHz
	792-825MHz
	851-870MHz
	<b>Receive</b>
	762-776MHz
700/800MHz	851-870MHz
Frequency stability	±1.5ppm (22°F to 140°F/-30°C to 60°C)
Channel/zones	1,000 channels/30 zones
Talk groups	26 talk group lists comprised of up to 50 members each
Scan groups	300 with up to 50 members each, maximum of 2,000 members total
Dimensions (DxWxH)	1.9 x 2.6 x 6.6in (47 x 67 x 167mm)
Weight	
(includes NiMH battery)	20.4oz (580g)
(includes Li-Ion battery)	16.4oz (480g)
Interfaces	Four-line full dot matrix LCD
Channel Spacing	12.5/15/20/25/30kHz
Frequency increment	2.5/5/6.25
Operating temperature	-22°F to 140°F (-30°C to 60°C)
Sealing	IP54 dust and rain
Rated audio	>500mW
Analog signalling options	MDC1200 encode/decode, Two Tone decode, PL (CTCSS), DPL (DCS)

## TRANSMITTER

	VHF	UHF	700/800MHz
Output power	5W, 3W, 2W, 1W	4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W
Modulation limiting			
25/30kHz channel	±5kHz		
20kHz channel	±4kHz		
12.5kHz channel	±2.5kHz		
FM hum and noise (typical)			
25/30kHz channel	-48dB	-41dB	-40dB
12.5kHz channel	-42dB	-37dB	-34dB
Conducted emissions (typical)	-75dBc	-75dBc	-70dBc
Audio response (analog)			
12.5/15kHz	300–2550Hz +1/-3dB		
25/30kHz	300–3000Hz +1/-3dB		
Audio distortion (analog)	<5% @ 1kHz, 60% modulation		
Transmit attack time (TIA/EIA 102)	50mS		
Duty Cycle	1min Tx, 4min Rx for 8hrs @ 140oF (60oC)		

## RECEIVER (TYPICAL FIGURES SHOWN)

	VHF	UHF	700/800MHz
Analog sensitivity			
12dB SINAD	0.28uV (-118dBm)	0.28uV (-118dBm)	0.28uV (-118dBm)
Digital sensitivity (TIA/EIA- 102)			
5% BER	0.22uV (-120dBm)	0.22uV (-120dBm)	0.22uV (-120dBm)
Intermodulation rejection (TIA/EIA 102)	-78dB	-78dB	-78dB
Adjacent channel selectivity			
25/30kHz channel (TIA/EIA 603)	-73dB	-73dB	-70dB
12.5kHz channel (TIA/EIA 102)	-63dB	-63dB	-60dB
Spurious response rejection	-75dB	-75dB	-70dB
Residual audio noise ratio TIA/EIA 102)	45dB	45dB	45dB
Audio distortion @ rated audio	<3%	<3%	<3%

**MILITARY STANDARDS 810C, D, E, F and G**

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	514.4	1
Shock	516.4	1, 4

**BATTERY**

Intelligent battery options	NiMH and Standard 2400mAh Li-Ion 2400mAh
Battery shift life (NiMH/Li-Ion)	>12 hours 5/5/90

**CHARGER**

Charger options (Li-Ion)*	Fast desktop smart charger 6-way multi charger Vehicle charger
---------------------------	--

\* Multi and vehicle charger not available in Brazil.

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. All specifications shown are typical.

\*Contact your local Tait representative for more information.

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

The word "Tait" and the Tait logo are trademarks of Tait Limited.

Tait Limited facilities are certified for ISO9001:2008 (Quality Management System), ISO14001:2004 (Environmental Management System) and ISO18001:2007 (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 ISO9001:2008.

