



Models shown IS TP9155 and IS TP9160

# P25 TRUNKED AND CONVENTIONAL PORTABLE RADIOS

With FIPS validated encryption, certified interoperability, digital audio clarity and superb build quality the TP9155/TP9160 are tough, dependable and sophisticated portable radios. The TP9155/TP9160 gives you the flexibility of working in digital, analog or auto-sensing dual mode.

## Secure, dependable and flexible

- Commercially upgradeable to P25 Phase 2
- Tested in Department of Homeland Security-recognized P25 Compliance Assessment Program (P25 CAP) lab for interoperability and performance
- Radios can be used on analog, P25 conventional, trunked and simulcast networks
- Intrinsically safe option is available
- FIPS 140-2 certified encryption
- Tait Advanced System Key prevents 'unauthorized' radios from being added to the network without prior consent\*
- Tested beyond MIL-STD-810C, 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
  - \*Please contact your local Tait representative for more information
  - \*\*MDC1200 decode includes calling identity display and inhibit/uninhibit functionality
  - \*\*\*Software license option(s) available separately

# TP9155/60

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 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 a

### 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.

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.

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.

\*Please contact your local Tait representative for more information







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.

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# Regulatory Data

USA	VHF UHF	CFR 47 Parts 22, 90.210, 74, 90 CFR 47 Parts 22, 90.210,74, 95A, 90
	800MHz	CFR 47 Parts 22, 90

Canada	RSS-119
Europe	EN300 086, EN300 113 EN301 489
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Australia/New Zealand		A3/NZS4295					
Type Approval		FCC	Industrie Canada	NTIA			
	VHF UHF	CASTPAB1A	737A-TPAB1A	136-174MHz* 380-420MHz*			
		CASTPAH5A	737A-TPAH5A	400-470MHz*			
		CASTPAH6A	737A-TPAH6A				
	800MHz	CASTPAK5A	737A-TPAK5A				

BUUIVIHZ	CASTFARSA	/3/A-TFANS
mission Designators	10K0F1D, 10K0F1E 10K0F7E, 11K0F3E	
	16K0F3E, 6K60FZI 8K10F1D 8K10F1F	

	8K10F7E, 9K60F2D
ESD Standard	IEC 61000-4-2







Mark of NIST, which does not imply product endorsement by NIST, the U.S. or Canadian Governments.

#### AUTHORIZED DEALER

# TP9155/60 Specifications

General			
Frequency Ranges	Frequency Band <sup>+</sup>		
VHF	136-174MHz*		
UHF	380-420MHz*		
	400-470MHz*		
	450–530MHz		
700/800MHz	Transmit         Receive           762-776MHz         762-776MHz           792-825MHz         851-870MHz           851-870MHz         851-870MHz		
Frequency Stability	±1.5ppm (22°F to 140°F/-30°C to 60°C)		
Channels/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-lon 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		
Operational Temperature	-22°F to 140°F (-30°C to 60°C)		
Sealing	IP54 dust and rain		
Rated Audio	>500mW		
Analog Signaling Options	MDC1200 encode/decode, Two Tone decode, PL (CTCSS), DPL (DCS)		

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Military Standards 810C, D, E and 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, 4			
Transmitter					

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 & Noise (typical)					
25/30kHz channel	-48dB	-41dB	-40dB		
12.5/15kHz 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 @ 140°F (60°C)				

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Receiver (typical figures shown)		
Analog Sensitivity	VHF/UHF	700/800MHz
12dB SINAD	0.28µV (-118dBm)	0.28µV (-118dBm)
Digital Sensitivity (TIA/EIA-102) 5%BER	0.22µV (-120dВm)	0.22μV (-120dBm)
Intermodulation Rejection (TIA/EIA 102)	-78dB	-78dB
Adjacent Channel Selectivity 25/30kHz channel (TIA/EIA 603) 12.5kHz channel (TIA/EIA 102)	-73dB -63dB	-70dB -60dB
Spurious Response Rejection	-75dB	-70dB
Residual Audio Noise Ratio (TIA/EIA 102)	45dB	45dB
Audio Distortion @ Rated Audio	<3%	<3%

Battery	
Intelligent Battery Options	NiMH, Standard and Intrinsically Safe (IS) 2400mAh
	Li-Ion, Standard and Intrinsically Safe (IS)** 2500mAh
Battery Shift Life (NiMH/Li-Ion)	>12 hours 5/5/90

Criai gci	
Charger Options (NiMH, Li-Ion)	Fast desktop smart charger
	6-way multi charger
	Vehicle charger

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 are available in all markets. For further information please check with your nearest Tait office or authorized dealer.

The word "Tait" and the Tait logo are trademarks of Tait Electronics Ltd. Tait is an ISO 9001: 2008 and ISO 14001: 2004 certified supplier.

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

\*\*For Li-lon IS battery availability, please contact your local Tait representative for more information.