

Secure, dependable and flexible.

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.



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
- ▶ Intrinsically safe option is available
- ▶ FIPS 140-2 certified encryption
- 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



*MDC1200 decode includes calling identity display and inhibit/uninhibit functionality. **Software license option(s) available separately.







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).

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.

*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.





Frequency ranges	Frequency band ⁺		
VHF	136–174MHz***		
UHF	380-420MHz*** 400-470MHz*** 450-530MHz		
700/800MHz	Transmit 762-776MHz 792-825MHz 851-870MHz	Receive 762–776MHz 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) (includes Li-Ion battery)	20.4oz (580g) 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)		

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 20kHz channel 12.5kHz channel	±5kHz ±4kHz ±2.5kHz		
FM hum and noise (typical) 25/30kHz channel 12.5/15kHz channel	-48dB -42dB	-41dB -37dB	-40dB -34dB
Conducted emissions (typical)	-75dBc	-75dBc	-70dBc
Audio response (analog) 12.5/15kHz 25/30kHz	300–2550Hz +1/-3dB 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)	





RECEIVER (TYPICAL FIGURES SHOWN)

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			VHF/UHF	700/800MHz		
Analog sensitivity 12dB SINAD			0.28µV (-118dBm)	0.28µV (-118dBm)		
Digital sensitivity (TIA/EIA-102) 5%BER		A-102)	0.22µV (-120dBm)	0.22µV (-120dBm)		
Intermo	dulation rejection	(TIA/EIA 102)	-78dB	-78dB		
Adjacent channel selectivity 25/30kHz channel (TIA/EIA 603) 12.5kHz channel (TIA/EIA 102)		A/EIA 603)	-73dB -63dB	-70dB -60dB		
Spurious	s response rejectio	on	-75dB	-70dB		
Residua	l audio noise ratio	(TIA/EIA 102)	45dB	45dB		
Audio di	stortion @ rated a	udio	<3%	<3%		
MILIT	ARY STANDA	RDS 810C, D,	E AND F			
Low pres High ten Low tem	nperature iperature iture shock diation Y		Method 500.4 501.4 502.4 503.4 505.4 506.4 507.4 509.4 510.4 510.4 514.5 516.5	Procedure 2 1, 2 1, 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
BATT	ERY					
Intellige	nt battery options		NiMH, Standard and Intrinsically Safe (Li-Ion 2400mAh	IS) 2400mAh		
Battery shift life (NiMH/Li-Ion)		-lon)	>12 hours 5/5/90	>12 hours 5/5/90		
CHAR	GER					
Charger	options (NiMH, Li	-lon)	Fast desktop smart charger 6-way multi charger Vehicle charger			
REGU	LATORY DAT	Ά		Authorized Partners		
USA	VHF UHF 800MHz	CFR 47 Parts 22 CFR 47 Parts 22 CFR 47 Parts 22	, 74, 90, 95A, 90.210			
Canada		RSS-119				
Europe		EN300 086, EN3	300 113, EN301 489, EN60950-01			
	a/New Zealand	A3/NZS4295				
Type and	proval	FCC	Industrie Canada NTIA			

USA	VHF UHF 800MHz	CFR 47 Parts 22, 74, 90, 90.210 CFR 47 Parts 22, 74, 90, 95A, 90.210 CFR 47 Parts 22, 90			
Canada		RSS-119			
Europe		EN300 086, EN300 113, EN301 489, EN60950-01			
Australia/New Zealand		A3/NZS4295			
Туре ар	proval	FCC	Industrie Canada	NTIA	
	VHF UHF	CASTPAB1A	737A-TPAB1A	136-174MHz*** 380-420MHz***	
	800MHz	CASTPAH5A CASTPAH6A CASTPAK5A	737A–TPAH5A 737A–TPAH6A 737A–TPAK5A	400-470MHz***	
Emissior	n designators	10K0F1D, 10K0F1E, 10K0F7D, 10K0F7E, 11K0F3E, 12K7F1D, 16K0F3E, 6K60FZD, 7K70F1D, 8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 9K60F2D			
ESD Sta	ndard	IEC 61000-4-2			

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 authorized dealer.

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

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