



TP9135/TP9140 portable radios provide affordable and reliable digital communications for Public Safety users who need exceptional audio clarity without provision for all possible features or configurations.



KEY FEATURES

- Radios can be used on analog, P25 conventional, trunked and simulcast networks
- Ease of operation: all user controls and menu functions are identical across all the Tait P25 portables, mobiles and hand-held control heads
- Tested beyond MIL-STD-810C, D, E and F Tait performs tougher drop tests, then performs ingress and other tests on the same radio
- Supports individual, group, broadcast and emergency calls
- Programmable power settings and intelligent batteries
- Emergency features for staff safety include Man Down and Lone Worker
- Advanced voting optimizes channel reception
- Comprehensive scanning features including P25 talk group, priority, dual priority and editable scanning.

















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 builtin shock absorption, while a unique and patented battery clasp mechanism eliminates threat of the battery dislodging when the radio is dropped.

Interoperability assured

Genuine open standards ensure choice, value and responsiveness during routine operations or crises.

Digital audio clarity

Crystal clear digital audio allows precise communication even in noisy situations.

Analog operation for phased transition to P25 digital

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

Analog mode allows communication between various partner agencies signaling options including MDC1200 encode/decode and Two Tone decode.* *A separately enabled option. **Tailored functionality**

This radio will provide the essential network performance required by Public Safety users. For more advanced functionality users should consider investing in the TP9155/60 for long term flexibility.



Above: A TP9140 with yellow front panel shown.

More front panel colored options are available. Please contact your local Tait representative for more information.





GENERAL			
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)

		VHF/UHF	700/800MHz
Analog sensitivity 12dB SINAD		0.28µV (-118dBm)	0.28µV (-118dBm)
Digital sensitivity (TIA/ 5%BER	EIA-102)	0.22µV (-120dBm)	0.22µV (-120dBm)
Intermodulation rejection	on (TIA/EIA 102)	-78dB	-78dB
Adjacent channel select 25/30kHz channel (12.5kHz channel (TI.	TIA/EIA 603)	-73dB -63dB	-70dB -60dB
Spurious response rejec	ction	-75dB	-70dB
Residual audio noise rat	tio (TIA/EIA 102)	45dB	45dB
Audio distortion @ rate	d audio	<3%	<3%
MILITARY STAN	DARDS 810C, D, E	AND F	
Applicable MIL-STD Low pressure High temperature Low temperature Temperature shock Solar radiation Rain Humidity Salt fog Dust Vibration Shock BATTERY Intelligent battery optio		Method 500.4 501.4 502.4 503.4 505.4 506.4 507.4 509.4 510.4 514.5 516.5 NiMH 2400mAh Li-Ion 2400mAh	Procedure 2 1,2 1,2 1 1 1 1 1,3 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Battery shift life (NiMH,	/Li-lon)	>12 hours 5/5/90	
CHARGER			
Charger options (NiMH,	, Li-Ion)	Fast desktop smart charger 6-way multi charger Vehicle charger	
REGULATORY DA			Authorized Partners
USA VHF UHF 800MH2		74, 90, 95A, 90.210	
Canada	RSS-119		
Europe	EN300 086, EN3	00 113, EN301 489, EN60950-01	
Australia/New Zealand A3/NZS4295			

Australia/New Zealand	A3/NZS4295			
Type approval	FCC	Industrie Canada	NTIA	
VHF	CASTPAB1A	737A-TPAB1A	136-174MHz*	
UHF			380-420MHz*	
	CASTPAH5A	737A-TPAH5A	400-470MHz*	
	CASTPAH6A	737A-TPAH6A		
800MHz	CASTPAK5A	737A-TPAK5A		
Emission designators	10K0F1D, 10K0F1E, 10K0F7D, 10K0F7E, 11K0F3E, 12K7F1D, 16K0F3E, 6K60FZD, 7K70F1D, 8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 9K60F2D			
ESD standard	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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Please note that this product does not offer encryption capability and there is no upgrade path for this. If encryption may be required Tait recommends the TP9155/ TP9160 portable radios.