TP9135/40



Tough, reliable and interoperable.

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-810 C, 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.



TP9135/40

SPECIFICATIONS











FEATURES AND BENEFITS

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

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.

TP9135/40 SPECIFICATIONS



GENERAL			
Frequency ranges	Frequency band [†]		
VHF	136–174MHz***		
UHF	380-420MHz***		
	400-470MHz***		
	450–530MHz		
700/800MHz	Transmit	Receive	
	762–776MHz	762–776MHz	
	792–825MHz	054 070MH-	
Fragues av etability	851–870MHz	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-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		
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)		

	VHF	UHF	700/800MHz
utput power	5W, 3W, 2W, 1W	4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W
ulation limiting			
5/30kHz channel	±5kHz		
OkHz channel	±4kHz		
2.5kHz channel	±2.5kHz		
num and noise (typical)			
5/30kHz channel	-48dB	-41dB	-40dB
.5kHz channel	-42dB	-37dB	-34dB
cted emissions (typical)	-75dBc	-75dBc	-70dBc
esponse (analog)			
2.5/15kHz	300–2550Hz +1/-3dB		
/30kHz	300–3000Hz +1/-3dB		
distortion (analog)	<5% @ 1kHz, 60% m	odulation	
mit attack time (TIA/EIA 102)	50mS		
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/EIA-102)				
5%BER	0.22µV (-120dBm)	0.22µV (-120dBm)		
Intermodulation rejection (TIA/EIA 102)	-78dB	-78dB		
Adjacent channel selectivity				
25/30kHz channel (TIA/EIA 603)	-73dB	-70dB		
12.5kHz channel (TIA/EIA 102)	-63dB	-60dB		
Spurious response rejection	-75dB	-70dB		
Residual audio noise ratio (TIA/EIA 102)	45dB	45dB		
Audio distortion @ rated audio	<3%	<3%		

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MILITARY STANDARDS 810C, D, E AND F			
Applicable MIL-STD Method	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	

NiMH, Standard and Intrinsically Safe (IS) 2400mAh Intelligent battery options

Li-lon 2400mAh Battery shift life (NiMH/Li-Ion) >12 hours 5/5/90

CHARGER

ESD Standard

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

REGULATORY DATA					
	VHF	CFR 47 Parts 22, 74, 90, 90.210			
USA	UHF	CFR 47 Parts 22, 74, 90, 95A, 90.210			
	800MHz	CFR 47 Parts 22, 90			
Canada		RSS-119			
Europe		EN300 086, EN300 113, EN301 489, EN60950-01			
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,			
Emission designators		EVENTAD 7V70F1D 9V10F1D 9V10F7D 9V10F7E 0V			

IEC 61000-4-2

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.

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

*Contact your local Tait representative for more information.

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

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Tait Limited facilities are certified for ISO9001:2008 (Quality Management System), ISO14001:2004 (Enwironmental 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.

6K60F2D, 7K70F1D, 8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 9K60F2D



Authorised Partners







