



3W speaker with water shedding grille and active noise cancellation.



Easy-grip control options for volume and channel selection.



Large color screen to keep you fully informed at a glance.

TP9800 MULTIBAND PORTABLES

RUGGED, LIGHTWEIGHT, MULTI-AGENCY COOPERATION

SEAMLESS MULTIBAND PERFORMANCE

The TP9800 Multiband Portable is configurable to operate on any combination of VHF, UHF and 700/800MHz bands. Flexible and simple ordering and deployment of single, dual and multiband operation at time of purchase, or subsequently over the air. Bands are not locked and can be reconfigured.

RUGGED, LIGHTWEIGHT DESIGN

Experience the lightest P25 multiband portable radio on the market with high capacity battery and compact design, providing up to 17 hours of shift life in P25 Phase 2 mode.

To give you maximum reliability, the Tait Tough design is certified IP68 dust and waterproof, IP65 protected from water jets and MIL-STD810H to withstand high and low temperatures, vibration, shock (drop), humidity, salt fog, rain, immersion, sand and dust.

MAXIMUM CONNECTIVITY

Connect to the range of networks in current operations or future technology migrations: Conventional Analog, P25
Conventional Digital, P25 Trunking Phase 1 and Phase 2, with integrated GNSS option for Location Services, Bluetooth® for wireless voice accessories, and WiFi OTAP.

Analog signaling options include Two Tone decode, MDC1200, PL (CTCSS), DPL (DCS), and Selcall.

EXCEPTIONAL AUDIO

Hear and be heard, even in the most extreme environments, with a powerful 3W speaker, and dual microphone active noise cancellation that removes background noise in both analog and digital modes.

ENHANCED WORKER SAFETY

Man Down and Lone Worker features are included as standard to send automated safety alerts and can combine with location data and Tait GeoFencing software options to guide an effective response. The programmable Emergency key can also send these safety alerts manually.

ERGONOMIC USER EXPERIENCE

The TP9800 is designed for easy use in emergency situations, with ergonomic, easy-grip control options; four programmable function keys and a three-way selector; and a range of accessories to tailor your experience.

COMPATIBLE BATTERIES & ACCESSORIES

The TP9800 shares common batteries, chargers and audio accessories that are compatible with all current TP9000 series portables.

PROVEN P25 INTEROPERABILITY

Enable multi-agency response and multivendor compatibility for voice, data and encryption methods – the TP9800 is approved by the TIA-102 P25 Compliance Assessment Program.

SECURE COMMUNICATION

Ensure only authorized personnel can hear your communications with end-toend encryption management options, FIPS 140-2 certified module, AES, DES and ARC4 algorithms, Tait EnableProtect Key Fill Device and Key Management Facility.



TP9800 MULTIBAND PORTABLES



TECHNICAL SPECIFICATIONS

	USA (FCC)	CANADA (ISEI						
Charger options (Li-Ion)	Fast desktop	single charger, 6-way	multi charger, vehicle charg	ger and battery	only vehicle charger			
CHARGER								
Analog and P25 Phase 1 /	FDMA Mode		13 hours	13 hours 14 hours				
P25 Phase 2 / TDMA Mod			17 hours	19 hours				
SHIFT LIFE (5/5/90) ³ WIT	TH HIGH CAPA	CITY BATTERY	6W VHF TRANSMIT	¹ 5W V	HF OR UHF TRANSMI			
Rain	506.5	1, 3	Shock	516.6	1, 4, 5, 6			
Solar radiation	505.5	1	Vibration	514.6	1			
Temperature shock	503.5	1	Immersion	512.5	1			
Low temperature	502.5	1, 2	Sand & Dust	510.5	1, 2			
High temperature	501.5	1, 2	Salt fog	509.5	1			
Low pressure	500.5	2	Humidity	507.5	2			
Applicable MIL-STD	Method	Procedure	Applicable MIL-STD	Method	Procedure			
MILITARY STANDARDS 8								
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Water and dust protection		IP68 & IP65						
Signaling options (analog))		MDC1200 encode and decode, Two Tone decode, PL (CTCSS), DPL (DCS), Selcall					
Audio Output			3W					
Vocoder type	uie	-22 F t0 +140 F AMBE +2™						
Radio Operating temperat	uro		2.5/3.125/5/6.25kHz -22°F to +140°F (-30°C to +60°C)					
Frequency increment			6.25/12.5/15/20/25/30kHz ²					
Channel Spacing		_	English, German, French, Spanish, Portuguese, Czech, Polish, Bulgarian					
Weight (with High Capacit Supported Languages	ly battery)	Ţ.	13.42oz / 382g (without antenna)					
Dimensions (with High Canasit			1.77 x 2.56 x 5.71in / 45 x 65 x 145mm (DxWxH excluding knobs and antenna)					
OTAP			Supported (P25 Trunking, WiFi) – Requires Tait EnableFleet					
Encryption (via Key-Fill De	evice or OTAR)		Supported in P25 Operation (FIPS Certified 256-bit AES, DES, ARC4)					
Bluetooth®			Supported					
Scan groups			300 with up to 50 members each, maximum of 2,000 members total					
Talk groups			1000 talk groups, up to 2,000 members total					
Channels/zones		,	2,000 channels/100 zones					
Frequency stability			±0.5ppm (-22°F to +140°F/-30°C to +60°C)					



VHF (136-174MHz) UHF (378-520MHz)

700/800MHz 900MHz ⁶

TP9800 MULTIBAND PORTABLES



TECHNICAL SPECIFICATIONS continued

Output power (nom) 6W ¹, 5W, 3W, 2W, 1W 5W ¹, 4W, 2.5W, 2W, 1W 3W, 2.5W, 2W, 1W 3W, 2.5W, 2W, 1W Modulation limiting 12.5/15kHz channel ±2.5kHz ±2.5kHz ±2.5kHz ±2.5kHz 25/30kHz channel ² ±5kHz ±5kHz ±5kHz ±5kHz	RANSMITTER	VHF	UHF	700/800MHz	900MHz				
Output power (nom) 6W ¹, 5W, 3W, 2W, 1W 5W ¹, 4W, 2.5W, 2W, 1W 3W, 2.5W, 2W, 1W Modulation limiting 12.5/15kHz channel ±2.5kHz ±2.5kHz ±2.5kHz ±5kHz ±5kHz FM hum and noise	(Note – Radio can be configured to operate on any combination of the supported bands)								
Modulation limiting $\begin{array}{cccccccccccccccccccccccccccccccccccc$	equency range	136-174MHz	378-520MHz	757-870MHz	896-941MHz				
12.5/15kHz channel ±2.5kHz ±2.5kHz ±2.5kHz ±2.5kHz 25/30kHz channel ² ±5kHz ±5kHz ±5kHz FM hum and noise ±5kHz ±5kHz	utput power (nom)	6W ¹ , 5W, 3W, 2W, 1W	5W ¹ , 4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W				
25/30kHz channel ² ±5kHz ±5kHz ±5kHz ±5kHz FM hum and noise	odulation limiting								
FM hum and noise	2.5/15kHz channel	±2.5kHz	±2.5kHz	±2.5kHz	±2.5kHz				
	25/30kHz channel ²	±5kHz	±5kHz	±5kHz	±5kHz				
12.5kHz channel -45dB -45dB -40dB -40dB	vi hum and noise								
	2.5kHz channel	-45dB	-45dB	-40dB	-40dB				
25kHz channel ² -48dB -48dB -45dB -45dB	25kHz channel ²	-48dB	-48dB	-45dB	-45dB				
Radiated and conducted emissions -75dBc -72dBc -75dBc -75dBc	adiated and conducted emissions	-75dBc	-72dBc	-75dBc	-75dBc				
Audio response (analog) +1/-3dB +1/-3dB +1/-3dB +1/-3dB	udio response (analog)	+1/-3dB	+1/-3dB	+1/-3dB	+1/-3dB				
Audio distortion (analog @1kHz, 60% mod) ⁵ 2% 2% 2%	udio distortion (analog @1kHz, 60% mod) ⁵	2%	2%	2%	2%				

RECEIVER	VHF	UHF	700/800MHz	900MHz				
(Note – Radio can be configured to operate on any combination of the supported bands)								
Frequency range	136-174MHz	378-520MHz	757-776MHz, 851-870MHz	935-941MHz				
Sensitivity (analog) 12dB SINAD (TIA-603)	0.22uV (-120dBm)	0.22uV (-120dBm)	0.22uV (-120dBm)	0.22uV (-120dBm)				
Sensitivity (P25) 5% BER	0.2uV (-121dBm)	0.2uV (-121dBm)	0.2uV (-121dBm)	0.2uV (-121dBm)				
Intermodulation rejection (P25) TIA-102	75dB	75dB	70dB	70dB				
Adjacent channel rejection								
12.5kHz (P25) TIA-102	60dB	60dB	60dB	60dB				
25kHz TIA-603 (2-tone) ²	70dB	70dB	65dB	65dB				
Spurious response rejection (P25) TIA-102	75dB	80dB	70dB	70dB				
Residual audio noise ratio (P25) TIA-102	45dB	45dB	45dB	45dB				
Audio distortion (rated audio)	1.5%	1.5%	1.5%	1.5%				
FM hum and noise (Analog)								
12.5kHz channel ²	-50dB	-50dB	-45dB	-40dB				

NOTE:

- 1. Very high power only available in USA/Canada.
- 2. Wideband operation is not available in the USA in some bands.
- 3. Battery performance is dependent on frequency, temperature, and operational configuration.
- 4. The UHF band radios are approved for use in Citizen Band in Australia and New Zealand when programmed to meet the requirements of AS/NZS4365.
- 5. Rated audio (for performance testing) 0.5W.

Tait has taken every care in compiling this brochure, but we're always innovating and therefore changes to our models, designs, technical specifications, visuals and other information included in this brochure could occur. For the most up-to-date information and for a copy of our terms and conditions please visit our website www.taitcommunications.com

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