

FLEXIBLE, RUGGED AND RELIABLE COMMUNICATION
The world's first professional DMR multiband radios
Increase worker safety and productivity across multiple radio
networks and frequency bands with the TP9700 Multiband Portable,
a highly reliable and versatile radio designed to adapt to a wide
variety of operations.





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



Glove-friendly control options for volume and channel selection.



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

FLEXIBLE, RUGGED AND RELIABLE COMMUNICATIONS

THE WORLD'S FIRST DMR MULTIBAND PORTABLES

The TP9700 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 TAIT TOUGH DESIGN

The TP9700 is certified IP68 dust and waterproof, IP65 protected from water jets and rated MIL-STD810G to withstand high and low temperatures, vibration, (drop tests), humidity, salt fog, and more.

COMMUNICATE WITH MULTIPLE ORGANIZATIONS

Easily communicate with other organizations without the need for several bulky devices. Roam between networks or switch frequency bands in direct mode.

MAXIMUM CONNECTIVITY

Connect to the range of networks you may encounter in current operations or future technology migrations:

Conventional Analog, MPT1327, DMR Tier 2 Conventional, DMR Tier 3 Trunking, 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 are standard features that can 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 TP9700 is designed for easy use in emergency situations, with easy-grip control options, four programmable function keys, a threeway selector and a range of accessories to tailor your experience.

COMPATIBLE BATTERIES & ACCESSORIES

The TP9700 batteries, chargers and audio accessories are compatible with all current TP9000 series portables.

YOUR FREEDOM OF CHOICE

Tait proudly supports and contributes to the DMR open standard ecosystem. Open standards enable multivendor compatibility to give you more freedom of choice and value for money throughout the life of your investment.

SECURE COMMUNICATION

Secure your fleet with encryption options, tools to manage lost or stolen radios, DMR trunking authentication to prevent unauthorized network access and the Tait EnableProtect Advanced System Key to allow only authorized personnel access radio software and configuration.







GENERAL		
Conventional Mode	Networks	26
	Channels/zones	1,500 Channels / 100 zones
	Scan groups	300 with up to 50 members each
Trunked Mode	Networks	4
	Talk groups	512 talk group lists
	Zones and work groups	1,000 zones, 1,000 work groups
Bluetooth®	Supported	
Encryption	ARC4, DES, AES Supported	(DMR Tier 2 and Tier 3)
OTAP	Supported (DMR Tier 3, Wi	Fi) – Requires Tait EnableFleet
Dimensions (with High Capacity battery)	1.77 x 2.56 x 5.71in / 45 x 65	x 145mm (DxWxH excluding knobs and antenna)
Weight (with High Capacity battery)	13.42oz / 382g (without ant	enna)
Supported Languages	English, German, French, Sp	oanish, Portuguese, Czech, Polish, Bulgarian
Frequency stability	±0.5ppm (-22°F to +140°F/-	30°C to +60°C)
Channel Spacing	6.25/12.5/15/20/25/30kHz ²	
Frequency increment	2.5/3.125/5/6.25kHz	
Radio Operating temperature	-22°F to +140°F (-30°C to +	60°C)
Vocoder type	AMBE +2™	
Packet Data	½ Rate, ¾ Rate, Full rate, Si	ngle Slot
Audio Output	3W	
Signaling options (analog)	MDC1200 encode and deco	de, Two Tone decode, PL (CTCSS), DPL (DCS), Selcall
Water and dust protection	IP68 & IP65	
Tait Infrastructure and Terminals are designed as per the following DMR Specifications:	ETSI TR 102 398 V1.4.1, ETS ETSI TS 102 361-3 V1.3.1, ET	SI TS 102 361-1 V2.5.1, ETSI TS 102 361-2 V2.4.1, TSI TS 102 361-4 V1.11.1

MILITARY STANDARDS	310G ⁷				
Applicable MIL-STD	Method	Procedure	Applicable MIL-STD	Method	Procedure
Low pressure	500.5	2	Humidity	507.5	2
High temperature	501.5	1, 2	Salt fog	509.5	1
Low temperature	502.5	1, 2	Sand & Dust	510.5	1, 2
Temperature shock	503.5	1	Immersion	512.5	1
Solar radiation	505.5	1	Vibration	514.6	1
Rain	506.5	1, 3	Shock	516.6	1, 4, 5, 6

BATTERY ³		CHARGER	
DMR / TDMA Mode Shift Life (5/5/90) with High Capacity battery	17 hours	Charger options (Li-Ion)	Fast desktop single charger, 6-way multi charger, vehicle charger and
Analog conventional or MPT Mode Shift Life (5/5/90) with High Capacity battery	13 hours		battery only vehicle charger

REGULATORY DATAUSA (FCC), Canada (ISED), Europe/UK (CE), Australia/New Zealand (AS/NZ) compliance for all stated bands except 900MHz compliance for FCC and ISED only.



TECHNICAL SPECIFICATIONS continued



Output power (nom) Modulation limiting 12.5/15kHz channel 25/30kHz channel 2 ±2.5 FM hum and noise 12.5kHz channel -45. 25kHz channel 2 -48. Radiated and conducted emissions -75. Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) 5 2% RECEIVER (Note - Radio can be configured to operate on any configured	F mbination of the supp	378-520MHz 5W ¹ , 4W, 2.5W, 2W, 1W ±2.5kHz ±5kHz -45dB -48dB -72dBc +1/-3dB 2% UHF	757-870MHz 3W, 2.5W, 2W, 1W ±2.5kHz ±5kHz -40dB -45dB -75dBc +1/-3dB 2% 700/800MHz	896-941MHz 3W, 2.5W, 2W, 1W ±2.5kHz ±5kHz -40dB -45dB -75dBc +1/-3dB 2% 900MHz ⁶
Output power (nom) Modulation limiting 12.5/15kHz channel 25/30kHz channel 2 ±2.5 FM hum and noise 12.5kHz channel -45. 25kHz channel 2 -48. Radiated and conducted emissions -75. Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) 5 2% RECEIVER (Note - Radio can be configured to operate on any configured	1,5W, 3W, 2W, 1W 5kHz 6dB 8dB dBc -3dB F mbination of the supp	5W 1, 4W, 2.5W, 2W, 1W ±2.5kHz ±5kHz -45dB -48dB -72dBc +1/-3dB 2% UHF	3W, 2.5W, 2W, 1W ±2.5kHz ±5kHz -40dB -45dB -75dBc +1/-3dB 2%	3W, 2.5W, 2W, 1W ±2.5kHz ±5kHz -40dB -45dB -75dBc +1/-3dB 2%
Modulation limiting 12.5/15kHz channel ±2.5 25/30kHz channel ² ±5k FM hum and noise 12.5kHz channel -45 25kHz channel ² -48 Radiated and conducted emissions -75c Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) 5 2% RECEIVER VHI (Note – Radio can be configured to operate on any configured to operate on	5kHz kHz dB dB dBc -3dB	±2.5kHz ±5kHz -45dB -48dB -72dBc +1/-3dB 2% UHF	±2.5kHz ±5kHz -40dB -45dB -75dBc +1/-3dB 2%	±2.5kHz ±5kHz -40dB -45dB -75dBc +1/-3dB 2%
12.5/15kHz channel ±2.5 25/30kHz channel ±5k FM hum and noise -45 12.5kHz channel -45 25kHz channel -48 Radiated and conducted emissions -75 Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) 5 2% RECEIVER (Note - Radio can be configured to operate on any configured to operate	KHz 6dB 8dB dBc -3dB F mbination of the supp	±5kHz -45dB -48dB -72dBc +1/-3dB 2% UHF	±5kHz -40dB -45dB -75dBc +1/-3dB 2%	±5kHz -40dB -45dB -75dBc +1/-3dB
25/30kHz channel 2 ±5k FM hum and noise 12.5kHz channel -45c 25kHz channel 2 -48 Radiated and conducted emissions -75c Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) 5 2% RECEIVER VHI (Note – Radio can be configured to operate on any configured to o	KHz 6dB 8dB dBc -3dB F mbination of the supp	±5kHz -45dB -48dB -72dBc +1/-3dB 2% UHF	±5kHz -40dB -45dB -75dBc +1/-3dB 2%	±5kHz -40dB -45dB -75dBc +1/-3dB
FM hum and noise 12.5kHz channel -45c 25kHz channel 2 -48 Radiated and conducted emissions -75c Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) 5 2% RECEIVER VHI (Note – Radio can be configured to operate on any configured	idB BdB dBc -3dB F mbination of the supp	-45dB -48dB -72dBc +1/-3dB 2%	-40dB -45dB -75dBc +1/-3dB 2%	-40dB -45dB -75dBc +1/-3dB 2%
12.5kHz channel -45. 25kHz channel -48. Radiated and conducted emissions -75. Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) 5 2% RECEIVER VHI (Note - Radio can be configured to operate on any co	BdB dBc -3dB F mbination of the supp	-48dB -72dBc +1/-3dB 2% UHF	-45dB -75dBc +1/-3dB 2%	-45dB -75dBc +1/-3dB 2%
25kHz channel ² -48 Radiated and conducted emissions -75c Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) ⁵ 2% RECEIVER VHI (Note – Radio can be configured to operate on any configured to ope	BdB dBc -3dB F mbination of the supp	-48dB -72dBc +1/-3dB 2% UHF	-45dB -75dBc +1/-3dB 2%	-45dB -75dBc +1/-3dB 2%
Radiated and conducted emissions -75 of Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) ⁵ 2% RECEIVER VHI (Note - Radio can be configured to operate on any configured requency range 136- Sensitivity (typical) Analog (12dB SINAD) 0.22 DMR (1% BER (ETS300-113)) 0.28	dBc -3dB F mbination of the supp	-72dBc +1/-3dB 2% UHF	-75dBc +1/-3dB 2%	-75dBc +1/-3dB 2%
Audio response (analog) +1/- Audio distortion (analog @1kHz, 60% mod) 5 2% RECEIVER VHI (Note – Radio can be configured to operate on any configured to operate	-3dB F mbination of the supp	+1/-3dB 2% UHF	+1/-3dB 2%	+1/-3dB 2%
Audio distortion (analog @1kHz, 60% mod) ⁵ 2% RECEIVER VHI (Note – Radio can be configured to operate on any configured representation of the configured to operate on any configured representation of the configured to operate on any configured representation of the configured to operate on any configured representation of the configured to operate on any configured representation of the configured to operate on any configured representation of the config	F mbination of the supp	2% UHF	2%	2%
RECEIVER (Note – Radio can be configured to operate on any configured to o	F mbination of the supp	UHF		
(Note – Radio can be configured to operate on any configured to operate on	mbination of the supp		700/800MHz	900MHz ⁶
(Note – Radio can be configured to operate on any configured to operate on	mbination of the supp		/00/800MHz	900MHz°
Frequency range 136- Sensitivity (typical) Analog (12dB SINAD) 0.22 DMR (1% BER (ETS300-113)) 0.25		portea banas)		
Sensitivity (typical) Analog (12dB SINAD) DMR (1% BER (ETS300-113)) 0.28	-1/4MHz	070 5001411	757 7701 41 1	005 074141
Analog (12dB SINAD) 0.22 DMR (1% BER (ETS300-113)) 0.25		378-520MHz	757-776MHz, 851-870MHz	935-941MHz
Analog (12dB SINAD) 0.22 DMR (1% BER (ETS300-113)) 0.25			001 070111112	
DMR (1% BER (ETS300-113)) 0.25	2µV (-120dBm)	0.22µV (-120dBm)	0.22µV (-120dBm)	
	•	0.25µV (-119dBm)	0.25µV (-119dBm)	
DIVIT (ON DETT)		0.2µV (-121dBm)	0.16µV (-123dBm)	
Audio distortion (rated audio) 1.5%	•	1.5%	1.5%	
FM hum and noise (Analog)	'0	1.076	1.576	
12.5kHz channel ² -50)dR	-50dB	-45dB	
25kHz channel ² -550		-55dB	-50dB	
Intermodulation rejection	a B	OCCID	OOGD	
Analog EIA603E 75d	łR	75dB	70dB	
DMR ETS 300-113 65d		65dB	65dB	
Adjacent channel rejection			3345	
12.5kHz (P25) TIA-102 60d	dB.	60dB	60dB	60dB
25kHz TIA-603 (2-tone) ² 73d	40	70dB	65dB	65dB
NOTE:	łB	, 0 4 5	CCGD	CCGD

- 1. Very high power only available in USA/Canada.
- 2. Wideband operation is not available in the USA in some bands.
- ${\it 3. \, Battery \, performance \, is \, dependent \, on \, frequency, \, temperature, \, and \, operational \, configuration.}$
- 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.
- 6. 900MHz singleband operation only, requires matching 900MHz singleband antenna.
- 7. Designed to meet MIL Standards. Compliance pending.

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 ${\sf v}$

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