

A SMART INVESTMENT, MADE TO EVOLVE

The flexibleTP9300 portables offer conventional and trunked DMR operation as well as full MPT 1327, and analog conventional FM in one device.

Improve work force safety with smart features such as Location Services, Tait Geo-Fencing, and Man Down functionality.



FEATURES AND BENEFITS

FLEXIBLE AND EASY TO USE

- Clear communication with DMR AMBE+2 enhanced digital vocoder and digital noise suppression software
- Bluetooth® connectivity for wireless voice accessories
- Four programmable function keysand three-way selector
- Tailor your experience with wider ange of accessory options
- Channel Authorization for DMR Tier 2 and Tier 3 gives users confidence their call will beheard

DMR SMART VOICE AND DATA

Benefit from the spectral efficiency, multi-vendor interoperability, security, migration and datacapability of DMR open standards.

- Text messaging for enhanced and unambiguous communications.
- Short data messages for location, statusand text.
- Packet data over traffic channels for work force management and customer specific applications.
- IPdatain digital trunked mode.
- USBD Fast Polling capable of 2000 polls per minute on compatible DMR Tier 3 systems

DMR SPECIFICATIONS

Tait infrastructure and terminals are designed asper the following DMR Specifications:

- ETSI TR 102 398 V1.5.1 General System Design.
- ETSI TS 102 361-1 V2.6.1 DMR Air Interface (AI) protocol.
- ETSI TS 102 361-2 V2.5.1 DMR voice and generic services and facilities.
- ETSI TS 102 361-3 V1.3.1 DMR data protocol.
- ETSI TS 102 361-4 V1.12.1 DMR trunking protoco.



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TAIT TOUGH - DESIGNED TO PERFORM

- Water-shedding grille maintains transmitted voice clarity and high audio volume in wet environments
- IP65 & IP68 dust and water proof
- Display screen protected by recess*
- Drop test exceeds MIL-STD-810G
- Shock absorbing corner protection
- Supported by arange of Tait Tough audio and carry accessories

PERSONALIZATION OPTIONS

- Custom label printing tools
- Black, red, yellow, orange, and hi-visibility green color options for easy identification in thefield

TAIT GEOFENCING AUTOMATION

- Radio scan automatically take arange of actions based on location, such as change modes, send messages, hazardous area alert, or activate lone worker features
- Independent of the network, dispatch, or any other software applications

EXTENSIVE NETWORK CAPABILITIES

- Future proof quad mode portable radio offering Trunked DMR, Conventional DMR, MPT 1327 and analog conventional FM in one device
- Roaming between MPT 1327and DMR Tier 3 trunked networks
- Roaming between Conventional FM and DMR Tier 2 Conventional networks
- Individual calls for private discussions
- Arangeof call types for individual and group communication with without the distraction of irrelevant traffic
- Increased channel capacity with up to 1,500 channels
- Scanning modes include: priority, dual priority, zone, and background scan groups are editable
- PSTN dialing allows a user to make phone calls on DMR systems that support telephone interconnect
- Trunked operation allowsfor individual and private calls within designated groups
- Pre-set status messages

IMPROVE WORK FORCE SAFETY

- Programmable emergency key is easily accessible and highly visible
- Man Down and LoneWorker
- Location Services integrated GNSS option, and iBeacon support for indoor locations
- Tait GeoFencing option for automated location based behavior
- Emergency calls have priority accessto trunked networks
- Intrinsically Safe options available (refer toTP9361specifications)
- Blast Alarms and Audible Alertsin DMR modes

TAIT ENABLE FLEET INDUSTRY LEADING CONFIGURATION MANAGEMENT SYSTEM

- Total visibility of your fleet from a secure, central point of control
- Wired connection or Over-the-air-programming (OTAP) to update configuration and software files
- OTAP via DMR trunked networks

SECURE COMMUNICATIONS

- Radio inhibit and uninhibit to allow management of misplaced or stolen radios
- Configurable DMR authentication to protect network access
- Support send-to-end encryption, including DES, ARC4, or AES
- Tait Enable Protect Advanced System Key ensures only authorized personnel can access radio software and configuration
- * Not all features are supported in all models or modes of operation.



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GENERAL INFORMATION	TP9310	TP9355/TP9360		
CONVENTIONAL MODE				
Network Channels/zones Scan groups	1 48 channels/ 3 zones 16 with up to 50 members each	26 1,500 channels/ 100 zones 300 with up to 50 members each		
CONVENTIONAL MODE				
Network Talk groups Zones and work groups Bluetooth	4 16 talk groups 3 zones,48 work groups Not supported Supported Supported (for audio acces iBeacon reporting)			
Encryption				
ARC4 DES AES	Supported (DMR Tier 2 and Tier 3) Not supported Not supported	Supported (DMR Tier 2 and Tier 3) Supported (DMR Tier 2 and Tier 3) Supported (DMR Tier 2 and Tier 3)		
OTAP	Supported (DMR Tier 3)	Supported (DMR Tier 3)		
Dimensions (DxWxH)				
With LI-Ion Slimline battery	1.61X 2.56 X 5.35IN (41X 65X 136MM) excluding knobs			
With Li-Ion Performance/ HighCapacity battery	<u> </u>			
Weight				
With Li-Ion Slimline battery	11.46oz (325g) - no antenna			
With Li-lon Performance battery	13.12oz (372g) - no antenna			
With Li-Ion High Capacity battery	13.52oz (385g) - no antenna			
Supported Languages	English (default), German, French, Spanish, Portuguese, Czech, Russian, Polish			
Water and dust protection	IP68 & IP65			
Channel Spacing	6.25/12.5/15/20/25/30kHz			
Frequency increment/channel step Frequency stability	2.5/3.125/5/6.25kHz ±0.5ppm(-22°Fto 140°F/-30°Cto 60°C)			
Operating temperature	-22°Fto 140°F(-30°Cto 60°C)			
ESD rating	+/-4kV contact discharge and +/-8kV air discharge			
Rated audio	0.5W			
Speaker rating	2W			
Air interface standard	DMR:ETSI TS 102 361-1V2.6.1, -2 V2.5.1, -3 V1.3.1, -4 V1.12.1			
General system design standard	ETSI TR102 398 V1.5.1			
Signaling options (Analog)	MDC1200, encode and decode, Two tone decode, PL (CTCSS), DPL (DCS). Selcall			
Vocoder type	AMBE +2 TM			
Packet Data	½Rate, ¾Rate, Full rate, Single Slot			



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TRANSMITTER	VHF	UHF	700/800 MHZ	
Frequency range	ency range 136-174MHZ (B1) 378-470MHZ (HK) 174-225MHZ (C0) 450-520MHZ (H7)		757-870MHZ (K5)	
Output power (nom)	5W, 3W, 2W, 1W	4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W	
FM humand noise (Analog) 12.5kHz channel 25kHz	-40dB -45dB	-40dB -45dB	-40dB -45dB	
Conducted/radiated emissions	-36dB	-36dB	-36dB	
Audio response	+1/-3dB	+1/-3dB	+1/-3dB	
Audio distortion (Analog)	2.5%@1kHz, 60%Deviation	2.5%@1kHz, 60%Deviation	2.5%@1kHz, 60%Deviation	
Modulation limiting	12.5/15kHz channel and 25/30kHz channel			

TRANSMITTER	VHF	UHF	700/800 MHZ
Frequency range	136-174MHZ (B1) 174-225MHZ (C0)	378-470MHZ (HK) 450-520MHZ (H7)	757-776MHZ & 850-870MHZ (K5) 757-776MHZ & 850-870MHZ (K5)
Sensitivity (typical) Analog (12dB SINAD) DMR (1% BER (ETS300-113)) DMR (5%BER)	-120dBM(0.22uV) -119dBM(0.25uV) -123dBM(0.16 uV)	-120dBM(0.22uV) -119dBM(0.25uV) -123dBM(0.16 uV)	-120dBM(0.22uV) -119dBM(0.25uV) -123dBM(0.16 uV)
Intermodulation rejection EIA603E ETS300-113	75DB 70DB	75DB 70DB	75DB 70DB
FM hum and noise (Analog)	12.5KHz: -40DB 25KHz: -45DB	12.5KHz: -40DB 25KHz: -45DB	12.5KHz: -40DB 25KHz: -45DB
Selectivity (Analog)			
EIA603E (2Tone)	12.5KHz: 52dB 25KHz: 73dB	12.5KHZ: 50dB 25KHz: 70dB	12.5KHZ: 50dB 25KHz: 70dB
ETS 300-086	12.5KHz: 62dB 25KHz: 73dB	12.5KHz: 60dB 25KHz: 73dB	12.5KHz: 60dB 25KHz: 70dB
Audio distortion (rated audio)	2%	2%	2%



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MILITARY STANDARDS 810C, D, E, F AND G

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

DMR Mode Shift Life(5/5/90)

Li-Ion High Capacity 27 hours Li-Ion Performance 20 hours Li-Ion Slimline 16 hours

Analog Mode Shift Life(5/5/90)

Li-Ion High Capacity 21 hours Li-Ion Performance 15 hours Li-Ion Slimline 12 hours

BATTERY	USA (FCC)	CANADA (ISED)	EUROPE(CE)	AUSTRALIA/NEWZEALAND(AS/NZ)
VHF (136 -174MHz) VHF (174 -225MHz)	•	•	•	•
UHF (320-380MHz) UHF (378-470MHz)	•	•	•	•
UHF (450-520MHz) 700/800MHz	•	•	• -	•