



Tait DMR, a smart investment, made to evolve.

Achieve more with your radio network. The most flexible devices and networks, with smart voice and data applications.

Built Tait Tough, theflexible TP9300 portables offer conventional and trunked DMR operation as well as full MPT 1327, and analog conventional FM in one device.

Improve workforce safety with smart features such as Location Services, Tait GeoFencing, and Man Down functionality.



TP9360









TP9360





TP9300 SPECIFICATIONS



FEATURES AND BENEFITS*

Flexibleand Easy to Use

- Clear communicationwith DMR AMBE+2enhanced digital vocoder and digital noisesuppression software
- Bluetooth® connectivity for wireless voice accessories
- Four programmable function keys and three-way selector
- Tailor your experience with wide range of accessory options
- Channel Authorization for DMR Tier 2 and Tier 3 gives users confidence their call will be heard

DMR smart voice and data

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

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

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 a range of Tait Tough audio and carry accessories

DMR specifications

Tait infrastructure and terminals are designed as per the following DMR Specifications:

- ETSI TR 102 398 V1.4.1 General System Design.
- ETSI TS 102 361-1 V2.5.1 DMR Air Interface (AI) protocol.
- ETSI TS 102 361-2 V2.4.1 DMR voice and generic services and facilities
- ETSI TS 102 361-3 V1.3.1 DMR data protocol.
- ETSI TS 102 361-4 V1.11.1 DMR trunking protocol

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 1327 and DMR Tier 3 trunked networks
- Roaming between Conventional FM and DMR Tier 2 Conventional networks
- Individual calls for private discussions
- A range of 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 allows for individual and private calls within designated groups
- Pre-set status messages

Personalization options

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

Improve workforce safety

- Programmable emergency key is easily accessible and highly visible
- ManDown and LoneWorker
- LocationServicesintegrated GNSS option, and iBeacon support for indoor locations
- Tait GeoFencing option for automated location based behavior
- Emergency calls have priority access to trunked networks
- Intrinsically Safe options available (refer to TP9361 specifications)
- Blast Alarms and Audible Alerts in DMR modes

Tait GeoFencing Automation

- Radios can automatically take a range 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

Tait EnableFleet 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
- Supports end-to-end encryption, including DES, ARC4, or AES
- Tait EnableProtect 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. Contact Tait or an authorized channel partner for more details. ^In-vehicle and 6 way multi-chargers are not available for sale in Brazil.

TP9300

SPECIFICATIONS



GENERAL INFORMATION	TP9310	TP9355/TP9360			
Conventional Mode					
Networks	1	26			
Channels/zones	48 channels / 3 zones	1,500 channels / 100 zones			
Scan groups	16 with up to 50 members each	300 with up to 50 members each			
Trunked Mode					
Networks	4	4			
Talk groups	16 talk groups	512 talk group lists			
Zones and work groups	3 zones, 48 work groups	1,000 zones, 1,000 work groups			
Bluetooth	Not supported	Supported (for audio accessories and iBeacon reporting)			
Encryption					
ARC4		3) Supported (DMR Tier 2 and Tier 3)			
DES AES	Not supported Not supported	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)	101 2 50 5 25: (/1 65 120	maN a vielvielie av lienelle a			
With Li-Ion Slimline battery With Li-Ion Performance / High Capacity battery	1.61 x 2.56 x 5.35in (41 x 65 x 136m 1.77 x 2.56 x 5.35in (45 x 65 x 136n				
Weight	1.77 × 2.50 × 5.5611 (40 × 50 × 15611	mi) excluding knobs			
With Li-Ion Slimline battery	11.46oz (325g) – no antenna				
With Li-Ion Performance battery	13.12oz (372g) – no antenna	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 ¹	6.25/12.5/15/20/25/30kHz				
Frequency increment/channel step	2.5/3.125/5/6.25kHz				
Frequency stability	±0.5ppm (-22°F to 140°F/-30°C to	±0.5ppm (-22°F to 140°F/-30°C to 60°C)			
Operating temperature	-22°F to 140°F (-30°C to 60°C)				
ESD rating	+/-4kV contact discharge and +/-	+/-4kV contact discharge and +/-8kV air discharge			
Rated audio	0.5W				
Speaker rating	2W				
Air interface standard	DMR: ETSI TS 102 361-1, -2, -3, -4				
General system design standard	ETSI TR 102 398 V1.4.1				
Signaling options (Analog)	MDC1200, encode and decode, Tv	MDC1200, encode and decode, Two tone decode, PL (CTCSS), DPL (DCS). Selcall			
Vocoder type	AMBE +2™				
Packet Data	½ Rate, ¾ Rate, Full rate, Single Slot				

I deket Data	72 Nate, 74 Nate, 1 uli 1at	/2 Nate, /4 Nate, Full Fate, Single Slot		
TRANSMITTER**	VHF	UHF	700/800MHZ #	
Frequency range	136-174MHz (B1) 174-225MHz (CO)	378-470MHz (HK) 450-520MHz (H7)	757-870MHz (K5)	
Output power (nom)	5W, 3W, 2W, 1W	4W, 2.5W, 2W, 1W	3W, 2.5W, 2W, 1W	
FM hum and noise (Analog) 12.5kHz channel 25kHz ¹	-40dB -45dB	-40dB -45dB	-40dB -45dB	
Conducted/radiated emissions	-36dBm	-36dBm	-36dBm	
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 ¹	12.5/15kHz channel and	d 25/30kHz channel		
RECEIVER**	VHF	UHF	700/800MHZ #	

modalation mining	.23, 18.4.12 51.4.11.0. 41.4.25, 551.4.12 51.4.11.6.			
RECEIVER**	VHF	UHF	700/800MHZ#	
Frequency range	136-174MHz (B1) 174-225MHz (CO)	378-470MHz (HK) 450-520MHz (H7)	757-776MHz & 850-870MHz (K5) 850-870MHz (K4)	
Sensitivity (typical)				
Analog (12dB SINAD)	-120dBm(0.22 µ V)	-120dBm (0.22 µ V)	-120dBm (0.22 µ V)	
DMR (1% BER (ETS300-113))	-119dBm (0.25 µ V)	-119dBm (0.25 µ V)	-119dBm (0.25 µ V)	
DMR (5% BER)	-123dBm (0.16 µ V)	-123dBm (0.16 µ V)	-123dBm (0.16 µ V)	
Intermodulation rejection EIA603E ETS 300-113	75dB 70dB	75dB 70dB	75dB 70dB	

 $[\]ensuremath{^{**}}\xspace$ Contact your local Tait representative for more information.

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¹ Wideband operation is not available in the USA in some bands

 $^{^{\#}}$ Supports 700 A-Block frequencies (757-758MHz Tx & Rx, 787-788MHz Tx)

TP9300

SPECIFICATIONS



RECEIVER (CONT.)**	VHF	UHF	700/800MHZ #
FM hum and noise (Analog)	12.5kHz: -40dB 25kHz: -45dB	12.5kHz: -40dB 25kHz: -45dB	12.5kHz: -40dB 25kHz: -45dB
Selectivity (Analog)	23KMZ43UB	ZOKMZ40UB	ZOKITZ40UB
EIA603E (2 Tone)	12.5kHz: 52dB	12.5kHz: 50dB	12.5kHz: 50dB
	25kHz: 73dB	25kHz: 70dB	25kHz: 70dB
ETS 300-086	12.5kHz: 62dB	12.5kHz: 62dB	12.5kHz: 60dB
	25kHz: 73dB	25kHz: 73dB	25kHz: 70dB
Audio distortion (rated audio)	2%	2%	2%

MILITARY S	TANDARD	DS 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

BATTERY³

DMR	Mode	Shift	Life	(5/5/90)
DIVITA	IVIOGC	OHILL		(0/0/00)

(0, 0, 0, 0 0)	
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

REGULATORY DATA	USA (FCC)	CANADA (ISED)	EUROPE (CE)	AUSTRALIA/NEW ZEALAND (AS/NZ)
VHF (136-174MHz)	~	✓	✓	✓
VHF (174-225MHz)	~	-	-	√ 4
UHF (320-380MHz)	-	-	✓	-
UHF (378-470MHz)	~	✓	✓	√ ²
UHF (450-520MHz)	~	✓	✓	√ ²
700/800MHz	✓	✓	-	-

^{**}Contact your local Tait representative for more information.

TAIT DMR SOLUTION

Backed up by our proven radio network expertise, the TP9300 is part of our larger DMR offering. The Tait DMR solution consists of terminals, infrastructure, applications, services and integration with third party interfaces to ensure that your organization can reap all the benefits of the spectrally-efficient DMR standard in a mission critical environment.

Tait has taken every care in compiling this specification sheet, but we're always innovating and therefore changes to our models, designs, technical specification, visuals and other information included in this specification sheet 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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Tait International Limited facilities are certified for ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System) and ISO 45001:2018 (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 ISO 9001.











Quality Managemer

Management ISO 14001:201

Occupational Health & Safety Management

¹ Wideband operation is not available in the USA in some bands

² 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. Tait cannot guarantee full performance to the published specifications when the 378-470MHz radio is operating at the CB frequencies

³ Battery performance is dependent on frequency, temperature, and operational configuration.

⁴ New Zealand only

[#] Supports 700 A-Block frequencies (757-758MHz Tx & Rx, 787-788MHz Tx)