



Improved efficiency and enhanced usability.

Tait DMR is a highly reliable, modern, digital radio solution that is designed for mission critical environments. Tait DMR offers a digital communications solution based on the DMR standard.

The TP9300 portables offer conventional and trunked DMR operation as well as full MPT 1327, and conventional FM in one device.

The portable has inbuilt GPS, *Bluetooth*® wireless technology and IP67 protection.



KEY FEATURES

- Future proof multi-mode portables. (DMR trunked, DMR Conventional, MPT 1327 and conventional analog FM)
- Roaming between MPT and DMR Tier 3 trunked networks
- ▶ Roaming between FM Conventional and DMR Tier 2 Conventional Networks.
- Full adherence to DMR standards providing choice and interoperability
- Engineered for demanding environments with IP67 rating
- Increased voice usability with integrated *Bluetooth* wireless technology connectivity
- Privacy level Encryption
- Integrated GPS to improve efficiency and safety
- Text messaging and status calls to enhance your communications environment
- Crystal-clear audio quality
- > Available in a range of models and configurable to suit your application
- > Optional colors available. Orange and Hi-Visibility Green











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FEATURES AND BENEFITS*

Improve workforce safety with the following TP9300 features

- Man Down and Lone Worker as standard
- Integrated GPS will ensure that you always know where your workforce is
- Wireless audio accessories utilizing Bluetooth technology
- Crystal-clear voice ensuring the operator and user will understand the message
- Emergency calls have priority access to the network

Improve your organizations efficiency

- GPS location allows efficient allocation of resources to events
- Text messaging for enhanced and unambiguous communications
- Pre-defined status messages for fast notification and response in common situations

Privacy feature

- Trunked operation allows for individual and private calls within designated groups
- Optional 56bit DES encryption ensures privacy of conversations

Designed to perform in demanding environments

- Water shedding grille assists voice clarity and high audio volume is maintained in wet environments
- ▶ IP67 water and dust protection
- ▶ 4 and 16 keypad options
- 4 programmable function keys including emergency key

- Programmable orange emergency key at base of antenna for ease of location in dark or restrictive environments
- Recessed lens provides screen protection
- Impact protected corners provide shock absorbing protection

Voice communications delivering on operational needs

- Quad mode terminal offering Trunked DMR, Conventional DMR, MPT 1327 and analog conventional FM in one devise
- Roaming between MPT 1327 and DMR Tier 3 trunked networks
- Roaming between Conventional FM and DMR Tier 2 Conventional networks
- Individual calls provide privacy between individuals
- Group calls allow separate teams to communicate amongst themselves without having to listen to irrelevant traffic
- Increased channel capacity with support of up to 2,000 channels
- Analog capability includes Priority and Dual Priority, Editable, Zone and Background Scan
- PSTN dialling allows a user to make phone calls on DMR systems that support telephone interconnect
- Crystal-clear voice quality
- Optional continuous channel control knob
- Shared menu structure between 9300 terminals

Facilities to improve network security

- In DMR trunked mode all terminals must be authenticated on the network before they are given access
- Stun and Revive are implemented to temporarily deny a specific portable access to the network

Complete package with accessories portfolio

- Audio accessories including speaker-microphones, headsets and earpieces
- Choice of chargers, including invehicle, single fast chargers, and 6 way multi-chargers
- Standard and high capacity Li-lon batteries available
- Wide selection of carry cases and accessories

Data Services

- Embedded data for location
- Short data messages for location, status and text
- Packet data over traffic channels for work force management, Telemetry, SCADA and customer specific applications

Color Options

- Tait 9300 portables are available in black, orange and high visibility green
- These color options make it easier for workgroups to identify their equipment in the field

* Not all features are supported in all modes of operation. Feature comparison tables are available in the full product catalog.



SPECIFICATIONS



requency Range	Frequency Band	
VHF	136-174MHz	
UHF	400-470MHz, 450-520MHz	
700/800MHz	762-870MHz	
requency stability	±0.5ppm (-22°F to 140°F/-30°C to 60°C)	
Channels/zones	1,000 – 2,000 channels/50 – 100 zones	
alk groups	26 talk group lists comprised of up to 1,000 – 2,000 members each	
can groups	300 with up to 50 members each, maximum of 2,000 members total	
Dimensions (DxWxH)		
With Li-Ion standard battery	1.61 x 2.56 x 5.35in (41 x 65 x 136mm) excluding knobs	
With Li-Ion high-capacity battery	1.77 x 2.56 x 5.35in (45 x 65 x 136mm) excluding knobs	
Veight With Li-lon standard battery	11 46cz (225c) po optoppo	
With Li-lon high-capacity batter	11.46oz (325g) – no antenna 13.12oz (372g) – no antenna	
options	Black keypad, 3-way zone selector	
Channel spacing	6.25/12.5/15/20/25/30kHz	
requency increment/channel step	2.5/3.125/5/6.25kHz	
Operating temperature	-22°F to 140°F (-30°C to 60°C)	
Vater and dust protection	IP67	
SD rating	+/-4kV contact discharge and +/-8kV air discharge	
ated audio	0.5W	
peaker rating	2W	
ir interface standard	DMR: ETSI TS 102 361	
ignalling options (Analog)	MDC1200, encode and decode, Two tone decode, PL (CTCSS), DPL (DCS). Selcall	
'ocoder type	AMBE +2™	
acket Data	1/2 Rate, 3/4 Rate, Full rate, Single Slot	

TRANSMITTER VHF UHF (400-470MHz, 450-520MHz) 700/800MHz Output power 5W, 3W, 2W, 1W 4W, 2.5W, 2W, 1W 3W, 2.5W, 2W, 1W FM hum and noise (Analog) 25kHz¹ -45dB -45dB -45dB 12.5kHz channel -40dB -40dB -40dB 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

RECEIVER*

Sensitivity (analog) 12dB SINAD
Sensitivity (PDMR) 5% BER
Intermodulation rejection EIA603D
Intermodulation rejection ETS 300
Intermodulation rejection (Analog) ETS603D
Intermodulation rejection (DMR) ETS 300-113
FM hum and noise (Analog)
Selectivity (Analog) EIA603D (2 Tone) Selectivity (Analog) ETS 300-086

Optional external speaker output

Audio distortion (rated audio)

VHF	UHF (400-470MHz, 450-520MHz)	700/800MHz
-120dBm (0.22µV)	-120dBm (0.22µV)	-120dBm (0.22µV)
-119dBm (0.25µV)	-119dBm (0.25µV)	-119dBm (0.25µV)
73dB	75dB	75dB
66dB	66dB	70dB
75dB	80dB	70dB
70dB	70dB	70dB
12.5kHz: -41dB 25kHz: -45db	12.5kHz: -40dB 25kHz: -45dB	12.5kHz: -40dB 25kHz: -45dB
12.5kHz: 52dB 25kHz: 73dB	12.5kHz: 50dB 25kHz: 70dB	12.5kHz: 50dB 25kHz: 70dB
12.5kHz: 62dB 25kHz: 73dB	12.5kHz: 62dB 25kHz: 73dB	12.5kHz: 60dB 25kHz: 70dB
0.5W (into 16ohm balanced speaker)	0.5W (into 16ohm balanced speaker)	0.5W (into 16ohm balanced speaker)
2%	2%	2%



SPECIFICATIONS



MILITARY STANDARDS 810C, D, E, F AND G		
Applicable MIL-STD Method	Method	Procedure
Low pressure	500.5	2
High temperature	501.5	1,2
Low temperature	502.5	1,2
Temperature shock	503.5	1
Solar radiation	505.5	1
Rain	506.5	1,3
Humidity	507.5	2
Salt fog	509.5	1
Dust	510.5	1
Immersion	512.5	1
Vibration	514.6	1
Shock	516.6	1,4,5,6

BATTERY		
Charger options (Li-Ion)	Fast desktop single charger, 6-way r	nulti chargers, vehicle charger
Battery	Li-ion premium	Li-ion sta

Battery	Li-ion premium	Li-ion standard	
DMR Mode Shift Life (5/5/90)	15 hours	11.5 hours	
Analog Mode Shift Life (5/5/90)	12 hours	9 hours	

REGULATORY DATA				
	USA	Canada	Europe	Australia/New Zealand
VHF (136-174MHz)	CFR 47	RSS-119	EN300-086, EN300-113, EN300-219 EN301-489, EN60950	AS/NZS4295
UHF (400-470MHz)	CFR 47	RSS-119	EN300-086, EN300-113, EN300-219 EN301-489, EN60950	AS/NZS4295 AS/NZS4365 ²
UHF (450-520Mhz)	NA	NA	NA	AS/NZS4295 AS/NZS4365
700/800MHz	CFR 47	RSS-119	NA	NA
Emissions Designators	11K0F3E, 16	K0F3E ¹ , 6K60F2D	7K80F2D, 9K60F2D ¹ , 10K8F2D ¹ , 7K60FX	N, 7K60KXD,

¹Wideband operation is not available in the USA

²The UHF band radios are approved for use in Citizen Band in Australia and New Zealand when programed to meet the requirements of AS/NZS4365. Tait cannot guarantee full performance to the published specifications when the 400-470Mhz radio is operating at the CB frequencies.

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.

Specifications are subject to change without notice
and shall not form part of any contract. They are
issued for guidance purposes only. All specificationsTait Limited facilities are certified for
ISO9001:2008 (Quality Management System),
ISO14001:2004 (Environmental Management
System) and ISO18001:2007 (Occupational

*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 (Environmental 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

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