

Reliable and smart mobiles for business critical communications.

Designed for mission-critical environments, Tait DMR offers a secure and reliable digital communications solution based on the DMR standard.

The TM9315 mobile offers MPT, trunked DMR, conventional DMR and Analog FM operation. Its rugged design delivers straight forward voice communications in demanding environments.



KEY FEATURES

- Future proof multi-mode mobile (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 Networks
- Open DMR standard provides choice and interoperability
- Engineered for use in demanding environments with IP54 rating
- Audio clarity provided by noise reducing digital technology
- High quality audio
- A range of accessories including hands free microphones and GPS antennas
- GPS capable to improve efficiency and safety
- Support for digital encryption

FEATURES AND BENEFITS*

TM9315 features to improve workforce safety

- Digital technology improves audio quality and reduces background noise to ensure clear communications
- High quality voice ensuring the operator and users will understand the message
- Emergency calls have priority access to the network
- GPS capable (software/hardware option) radio ensures that you always know where your workforce is
- Lone Worker

Improve your organizations' efficiency

- 100 channel/talk-group capacity gives considerable flexibility
- Trunked operation allows for individual and private calls within designated groups
- Up to four trunked networks supported (MPT standard, DMR Tier 3 as a software option)
- Up to 100 call presets per trunked network

Facilities to improve network security

- Optional 56bit DES encryption ensures privacy of conversations
- Stun and Revive are implemented to temporarily deny a specific mobile access to the network
- When operating in DMR mode all terminals must be authenticated on the network before they are given access

Designed to perform in demanding environments

- High power external speaker option
- Rugged standard microphone
- Tough die-cast metal chassis with IP54 rated casing, giving protection against dust and splashing water

Voice communications delivering on operational needs

- Quad mode terminal offering, Conventional DMR tier 2 conventional FM, MPT 1327 and trunked DMR (software option) in one device
- Roaming between Conventional FM and Conventional DMR networks
- Roaming between MPT 1327 and trunked DMR networks
- Group calls allow separate teams to communicate amongst themselves without having to listen to irrelevant traffic
- Channel capacity with support of up to 100 channels
- Digital simplex mode
- Analog capability, includes foreground scan, CTCSS and DCS
- High quality voice
- Shared programming structure between 9300 terminals

Complete package with accessories portfolio

- Audio accessories are available including microphones and external speakers
- Variety of power supply units are available for your region and your specific application
- Vehicle installation kits for different mounting options

- Programming and service kits for ease of configuration and set up

Smart features

- Low standby power consumption
- Wide power control 1:25 ratio (25W)
- Duty 33% transmit 2 minute TX 4 minute RX (25W)
- CCDI control over conventional channels
- RAP control for trunked networks
- Control of digital outputs by status messages

Data Services

- Short data messages for location
- CCDI connectivity to the mobile for short data and control messages in conventional mode
- RAP connectivity to the mobile for short data and control messages in trunked mode

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

| GENERAL | |
|----------------------------------|---|
| Frequency stability | ±0.5ppm (-22°F to 140°F/-30°C to 60°C) |
| Conventional Mode | |
| Networks | 1 |
| Channels/zones | 100 channels, 1 zone |
| Scan/vote groups | 300 |
| Trunked Mode | |
| Networks | 4 |
| Talk groups | 32 talk groups |
| Zones and work groups | 0 |
| Dimensions | |
| Body - in (mm) | Height 25W: 21 (52), Width 25W: 6.3 (160), Depth 25W: 6.9 (175) |
| 2 digit control head - in (mm) | Height: 2.0(51), Width: 6.9 (175), Depth: 1.38 (35) |
| Weight - lb (kg) | |
| Body | 25W: 2.6 (1.2), |
| Control head | 0.4 (0.18) |
| Channel spacing | 6.25/12.5/15/20/25/30kHz |
| Frequency increment/channel step | 2.5/3.125/5/6.25kHz |
| Operating temperature | -22°F to 140°F (-30°C to 60°C) |
| Water and dust protection | IP54 |
| ESD rating | +/-4kV contact discharge and +/-8kV air discharge |
| Rated audio | 3W (internal speaker) 10W (external speaker) |
| Power supply | DC: 10.8-16VDC, AC: Desk top PSU – 100 to 130V or 200 to 250V |
| Air interface standard | DMR: ETSI TS 102 361 |
| Signaling options (Analog) | PL (CTCSS), DPL (DCS), Selcall, T99, MDC1200, MPT 1327 |
| Signaling options (Digital) | DMR Tier 2, DMR Tier 3 (option) |
| Vocoder type | AMBE +2™ |
| Packet Data | ½ Rate, ¾ Rate, Full rate, Single Slot |

| TRANSMITTER | VHF | UHF |
|--|--|---|
| Frequency range | 136-174MHz | 320-380MHz (G1) 400-470MHz (H5) 450-520MHz (H7) |
| Output power 25W Models | 25W, 10W, 5W, 1W | 25W, 10W, 5W, 1W |
| Input current (Typical) | | |
| Standby | 0.1A | 0.1A |
| 25W Models | 4.7A | 5.4A |
| FM Hum and noise (Analog) | | |
| 12.5kHz | -40dB | -40dB |
| 25kHz ¹ | -45dB | -45dB |
| Adjacent channel power - static (Analog) | | |
| @ 12.5kHz offset | -60dB | -60dB |
| @ 25kHz offset ¹ | -70dB | -70dB |
| Adjacent channel power - static (Analog) | | |
| ETS 300-113 | 12.5kHz: 60dB | 12.5kHz: 60dB |
| Conducted/radiated emissions | 25W: -36dBm | 25W: -36dBm |
| Audio response | +1/-3dB | +1/-3dB |
| Audio distortion (Analog) | 2.5% @1kHz, 60% deviation | 2.5% @1kHz, 60% deviation |
| Duty cycle | 25W: 2min Tx, 4min Rx for 8 hrs @ 140°F (+60°C), 5W continuous @ 104°F (+40°C) | |

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

| RECEIVER | VHF | UHF |
|----------------------------------|--------------------------------|------------------------------------|
| Frequency range | 136-174MHz | 400-470MHz (H5) 450-520MHz (H7) |
| Sensitivity (Analog) 12dB SINAD | -120dBm (0.22µV) | -120dBm (0.22µV) |
| Sensitivity (DMR) 5% BER | -119dBm (0.25µV) | -119dBm (0.25µV) |
| Intermodulation rejection | | |
| EIA603D | 76dB | 70dB |
| ETS 300-113 | 70dB | 70dB |
| Spurious response rejection | | |
| EIA603D | 80dB | 75dB |
| ETS 300-113 | 70dB | 70dB |
| FM hum and noise (Analog) | 12.5kHz: -40dB 25kHz: -45dB | 12.5kHz: -40dB 25kHz: -45dB |
| Conducted spurious emissions | -57dBm | -57dBm |
| Selectivity (Analog) | | |
| EIA603D (2 Tone) | 12.5kHz: 52dB 25kHz: 73dB | 12.5kHz: 50dB 25kHz: 70dB |
| ETS 300-086 | 12.5kHz: 62dB 25kHz: 73dB | 12.5kHz: 60dB 25kHz: 70dB |
| Optional external speaker output | 10W (into 4ohms) | 10W (into 4ohms) |
| Audio distortion (rated audio) | 2% | 2% |

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

| Applicable MIL-STD Method | Method | Procedure | Applicable MIL-STD Method | 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 | Vibration | 514.5 | 1 |
| Solar radiation | 505.5 | 1 | Shock | 516.5 | 1,5,6 |
| Rain | 506.5 | 1,3 | | | |

| 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) | CFR 47 | RSS-119 | NA | AS/NZS4295 AS/NZS4365 ² |
| Emissions Designators | 11K0F3E, 16K0F3E ¹ , 6K60F2D, 7K80F2D, 9K60F2D ¹ , 10K8F2D ¹ , 7K60FXW, 7K60FXD | | | |

¹Wideband 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 400-470MHz band radios is operating at the CB frequencies.

**The Australia/New Zealand approvals are available, For other jurisdictions please contact your local Tait representative.

TAIT DMR SOLUTION

Backed by our proven radio network expertise, the TM9300 mobile 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.taitradio.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 BS OHSAS 18001:2007 (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 ISO 9001.

