



Reliable and smart mobiles for mission critical communications.

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

The TM9335 mobiles offer conventional and trunked DMR operation as well as full MPT 1327, and conventional FM functionality in one device.





TM9335E SPECIFICATIONS



FEATURES AND BENEFITS*

TM9335 features to improve workforce safety

- · Lone Worker as standard
- Crystal-clear voice so the operator and user will understand the message
- Emergency calls have priority access to the network

Improve your organization's efficiency

- Text messaging for enhanced and unambiguous communications
- Pre-defined status messages for fast notification and response in common situations
- Over-the-air-programming (OTAP)
 with the industry-leading
 EnableFleet configuration
 management system delivers
 software and firmware changes over
 the Tait DMR Tier 3 radio network,
 making it faster, easier and more
 affordable to update and optimize
 the performance of the radios in
 your fleet

Talkgroup features

• Trunked operation allows for individual and private calls within designated groups

Facilities to improve network security

- When operating in DMR 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

Designed to perform in demanding environments

- Graphical control head, capable of local or remote operation. The remote configuration can also support a single or dual head.
- Easy to install Hand Held Control Head option, either local or remote operation
- Engineered for use in demanding environments with 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 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
- Open DMR standard provides choice and interoperability
- Group calls allow separate teams to communicate amongst themselves without having to listen to irrelevant traffic
- Increased channel capacity with support of up to 1,500 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
- Shared menu structure between all 9300 terminals

Complete package with accessories portfolio

- Audio accessories are available including microphones, speakers and a remote kit for hands-free operation in the car
- 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

Data services

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

^{*} Not all features are supported in all models or modes of operation. Contact Tait or an authorized channel partner for more details.

TM9335E SPECIFICATIONS



GENERAL

Frequency stability ±0.5ppm (-22°F to 140°F/-30°C to 60°C)

Conventional Mode

Networks 26

Channels/zones 1,500 channels / 26 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

Dimensions

Body - in (mm) Height 25W: 2.1 (52) Width 25W: 6.3 (160)

Depth 25W: 6.9 (175)

Graphical control head - in (mm) Height: 2.8 (71), Width: 7.24 (184), Depth: 1.38 (35)

Weight - lb (kg)

 Body
 25W: 2.6 (1.2)

 Control head
 0.73 (0.33)

 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)

Power supply DC: 10.8-16VDC, AC: Desk top PSU - 100 to 130V or 200 to 250V

Digital Protocol DMR: ETSI TS 102 361

Signaling options (Analog) MDC1200, encode and decode, Two tone decode, PL (CTCSS), DPL, (DCS), Selcall

Vocoder type AMBE +2™

Packet Data 1/2 Rate, 3/4 Rate, Full rate, Single Slot

TRANSMITTER* Frequency range 136-174MHz 25W, 10W, 5W, 1W Output power Input current 0.1A Standyby Current 25W Models 5.5A FM Hum and noise (Analog) 12.5kHz -40dB 25kHz -45dB Adjacent channel power - static (Analog) @ 12.5kHz offset -60dB @ 25kHz offset -70dB Adjacent channel power - static (DMR) 12.5kHz: 60dB ETS 300-113 Conducted/radiated emissions 25W: -36dBm Audio response (Analog) +1/-3dB 2.5% @1kHz, 60% Audio distortion (Analog)

25W: 2min Tx, 4min Rx for 8 hrs @ 140°F (+60°C), 5W: continuous @ 104°F (+40°C)

Duty cycle

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

TM**9335E**

SPECIFICATIONS



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

| pplicable MIL-STD Method | Method | Procedure | Applicable MIL-STD Method | Method | Procedure |
|--------------------------|--------|-----------|---------------------------|--------|-----------|
| ow Pressure | 500.5 | 2 | Humidity | 507.5 | 2 |
| igh temperature | 501.5 | 1,2 | Salt Fog | 509.5 | 1 |
| w temperature | 502.5 | 1,2 | Sand & Dust | 510.5 | 1, 2 |
| mperature shock | 503.5 | 1 | Vibration | 514.5 | 1 |
| ar radiation | 505.5 | 1 | Shock | 516.5 | 1,5,6 |
| n | 506.5 | 1,3 | | | |

| REGULATORY DATA | EUROPE 1 |
|-------------------------|--|
| VHF (136-174MHz) | EN300-086, EN300-113, EN300-219, EN301-489, EN60950 |
| Emissions Designators** | 11K0F3E, 16K0F3E, 6K60F2D, 7K80F2D, 9K60F2D, 10K8F2D, 7K60FXW, 7K60FXD |

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.

Authorized Partners











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