



TP3300/TP3350 PORTABLES

**VERSATILE, DUAL-MODE
COMMUNICATIONS**

ANALOG AND DMR TIER 2 RADIOS

KEY FEATURES

Analog and DMR conventional communications

Customizable faceplates with choice of keypad and color

Options for personalized die-cut labels to identify talk groups and users

IP67 Water and Dust Protection

TP3350 includes enhanced worker safety features including Man Down, GPS and Vibration alerts

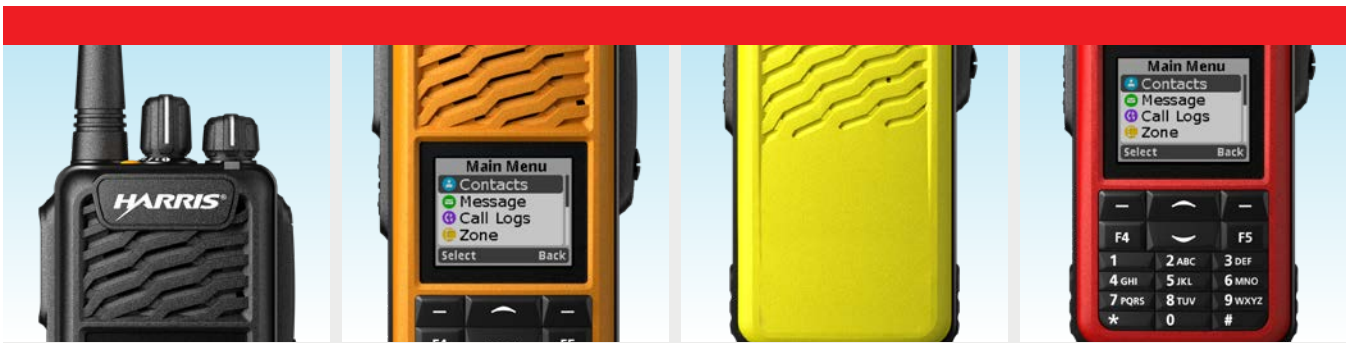
The Harris TP3300 and TP3350 portables, powered by Tait, deliver robust DMR performance. This dual mode radio also performs in analog mode, providing a cost-effective migration path to digital.

TP3300 and TP3350 solutions are IP67 rated for protection against dust and immersion up to one meter. The dual-mode portables also have voice annunciation technology, allowing users to keep their eyes on the task at hand while getting loud and clear indications of accurate channel and feature changes.

These feature-rich radios were designed to meet diverse needs of a variety of organizations. They can be

field-customized with a choice of cover colors and keypad options (0, 4 or 16-key), and can be personalized with labels for fast identification of user, workgroup and organization.

The TP3350 model includes Bluetooth® and additional worker safety and Situational Awareness features including Man Down, GPS location services and Vibration alerts for text messages.



FEATURES AND BENEFITS

Choose your own cover color

There are a range of color choices to help you quickly identify specific teams. Colors can be custom-ordered to match your brand guidelines. The front panel of the radio is interchangeable, so you can purchase a color cover today and have the flexibility to change the color in the future.

Choose your display and keypad

- No Key, No Display model
- 4-Key, Color Display model
- 16-Key, Color Display model

The 4-Key and 16-Key models have a 160x128 pixel, 1.77" color display. Customize the power-up display to contain your logo, radio ID, assigned owner or any other image. Use the display to select from 2000 channels, text messages, caller ID or identifying talk groups.

Personalize with labels

Each radio is built with designated spaces for custom labels. Custom-designed labels can include your brand logo, specific talk groups or radio type, user identification, or other critical information. Your radio can be completely unique to your organization and each individual user.

Voice annunciation

Users stay focused on the job at hand through voice annunciation technology. Loud and clear voice confirms users have changed channels or features without looking down at their radio.

Enhanced connectivity and safety

In addition to Bluetooth wireless connectivity, the TP3350 model provides a series of features for enhanced worker safety:

- Vibration alerts to ensure text messages are detected
- Integrated GPS to locate staff and check their progress
- Man Down sends an alert to dispatch when the radio detects unusual tilt or inactivity indicating someone may be injured
- The combination of GPS and Man Down services allows for quick identification of an injured person's location and nearby workers who can report to the scene to check status



SPECIFICATIONS FOR: TP3300/TP3350 PORTABLE-DIGITAL MOBILE RADIO [DMR]

| GENERAL | 136-174* MHz | 400-480/450-520* MHz |
|--|---|---|
| Frequency Stability | 1.0 ppm -22°F to 140°F, 77°F ref (-30 to +60°C, 25°C ref) | 1.0 ppm -22°F to 140°F, 77°F ref (-30 to +60°C, 25°C ref) |
| Digital Protocol | ETSI TS 102 361-1,2,3 | ETSI TS 102 361-1,2,3 |
| Battery Voltage | 7.5V | 7.5V |
| Standard Battery Capacity | 2000mAh Lithium-ion | 2000mAh Lithium-ion |
| Channel Capacity 0-Key Radio | 32 | 32 |
| Channel Capacity 4-Key and 16-Key Radios | 2000 | 2000 |

| RECEIVER | 136-174* MHz | 400-480/450-520* MHz |
|--|--|--|
| Sensitivity Analog | 0.22µV (-120 dBm) @ 12 dB SINAD | 0.22µV (-120 dBm) @ 12 dB SINAD |
| Sensitivity Digital 5% BER | 0.22µV (-120 dBm) @ BER 5% | 0.22µV (-120 dBm) @ BER 5% |
| Intermodulation | TIA603 70 dB ETSI 65 dB | TIA603 70 dB ETSI 65 dB |
| Adjacent Channel Selectivity | TIA603 70 dB; ETSI 65 dB @ 25 kHz TIA603 60 dB; ETSI 60 dB @ 12.5 kHz | TIA603 70 dB; ETSI 65 dB @ 25 kHz TIA603 60 dB; ETSI 60 dB @ 12.5 kHz |
| Spurious Rejection TIA603 | TIA603 75 dB ETSI 70 dB | TIA603 75 dB ETSI 70 dB |
| Conducted Spurious Emissions TIA603D, ETS300 086 | -57 dBm <1 GHz, -47 dBm >1 GHz | -57 dBm <1 GHz, -47 dBm >1 GHz |
| Blocking | 84 dB | 84 dB |
| Rated Audio | 750 mW | 750 mW |
| Maximum Audio | 1000 mW | 1000 mW |
| Audio Distortion | 2% @ 500 mW | 2% @ 500 mW |
| Audio Response (300-3000Hz) | +1 to -3 dB | -1 to -3 dB |

| TRANSMITTER | 136-174* MHz | 400-480/450-520* MHz |
|------------------------------|--------------------------------------|--------------------------------------|
| Power Output - Full Power | 5W | 4W |
| Power Output - Low Power | 1W | 1W |
| Adjacent Channel Power | -60 dB @ 12.5 kHz -70 dB @ 25 kHz | -60 dB @ 12.5 kHz -70 dB @ 25 kHz |
| Conducted/Radiated Emissions | -36 dBm <1 GHz -30 dBm >1 GHz | -36 dBm <1 GHz -30 dBm >1 GHz |

| ENVIRONMENTAL | 136-174* MHz | 400-480/450-520* MHz |
|--------------------------|--------------|----------------------|
| IP Rating, Water Ingress | IP67 | IP67 |

| MIL810G | PROCEDURE | METHOD |
|-----------|-----------|--------|
| Humidity | 507.6 | 1 |
| Vibration | 514.6 | 1 |
| Shock | 516.6 | 1, 4 |

| TYPE APPROVAL DATA | 136-174* MHz | 400-480 MHz | 450-520* MHz |
|---------------------------|---|---|---|
| Emission Designators | FM 12.5 kHz: 11K0F3E FM 25 kHz: 16K0F3E 4FSK 12.5 kHz (data only): 7K60FXD 4FSK 12.5 kHz (data+voice): 7K60FXE | FM 12.5 kHz: 11K0F3E FM 25 kHz: 16K0F3E 4FSK 12.5 kHz (data only): 7K60FXD 4FSK 12.5 kHz (data+voice): 7K60FXE | FM 12.5 kHz: 11K0F3E FM 25 kHz: 16K0F3E 4FSK 12.5 kHz (data only): 7K60FXD 4FSK 12.5 kHz (data+voice): 7K60FXE |
| FCC ID | TBD | CASTPEHGE | TBD |
| ISED (Industry Canada) ID | TBD | 737ATPEHGE | TBD |

*Future release

Contact your local Harris representative for more information.

SPECIFICATIONS FOR: TP3300/3500 PORTABLE-DIGITAL MOBILE RADIO [DMR]

| PRODUCT FEATURES | | |
|-----------------------|---|-------------|
| Digital | TP3300/TP3350 | TP3350 only |
| Dual Slot Direct Mode | Improved channel efficiency—more users and more calls | |
| Transmit Interrupt | Optimized call management—faster response in emergency call situations | |
| Voice Caller ID | Indication of the calling party ID during calls | |
| Voice Annunciation | Used when changing channel or for certain other functions such as low battery warnings. Customizable and programmable by dealer | |
| Stun or Revive | Disable a radio that is stolen, lost or being mis-used. In the event it is recovered, it can be revived and used again | |
| Radio Alert | Alarm that can be set off by another radio to indicate that it is calling | |
| Address Book | Up to 256 lists of 64 members (individuals or groups) | |
| Scan Groups | Up to 256 lists of 16 members | |
| Encryption | ARC4 (40 bit) voice and data | |
| Text Messaging | DMR standard IP messaging Tait optimized texting | |
| GPS Location Messages | DMR standard GPS messaging Tait optimized GPS messaging | |
| Bluetooth® 4.0 | Connectivity for audio, data transfer and programming | |
| Man Down | Sensitive 3D accelerometer to alert dispatch of unusual tilt or inactivity | |
| Vibration Alert | Discrete vibrations (vs. audible beeps) alert users to calls or text messages | |
| Analog | TP3300/TP3350 | |
| CTSS & DCS | Encode and decode | |
| 5-Tone | Encode (20ms) and decode (40ms) | |
| 2-Tone | Encode and decode | |
| MDC1200 | Encode and decode | |
| DTMF | Encode and decode | |
| Voice Annunciation | On Channel change and during other service changes | |

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. All specifications shown are typical.

About Harris Corporation

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

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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.