TP3300/TP3350 PORTABLES

ANALOG AND DMR TIER 2 RADIOS

VERSATILE, DUAL-MODE COMMUNICATIONS

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 are 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 such as Man Down, GPS location services and Vibration alerts for text messages.

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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 help detect text messages
- 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 need assistance, and nearby workers who can report to the scene to check status
- The combination of GPS and Man Down services helps identify a the location of a person who may need assistance, 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
Receiver Hum and Noise	-40 dB @ 12.5 kHz	-40 dB @ 12.5 kHz

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.

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 misused. 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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