

# Great value, easily personalized

The TP3 series is a unique, highly customizable portable radio. Operating in DMR Tier 2 and analog, it puts the power to choose the color, display, keypad, and labels for each radio in your hands.

If your needs evolve, the TP3 allows you to change these options quickly and cost-effectively - any time!

The TP3 is the only radio that gives you the power to choose - and the power to change - with such ease and affordability.





## FEATURES AND BENEFITS

The TP3 series is a great value, dual mode portable radio, capable of Analog Conventional and DMR Tier 2. Each radio is highly customizable and can be fit with the color, keypad, and label of your choice.

Smart features in the TP3350 also include voice annunciation, GPS, Man Down, Bluetooth, and vibration alert.

### Choose Your Own Color

Each TP3 radio is available in a range of colors, giving your organization the freedom to choose radios that look the way you want. Organize your portables using color to quickly identify specific teams. Colors can be selected to match your brand guidelines, or to stand out better in environments they need to be seen in.

The front panel of the radio is interchangeable, allowing you to purchase a black radio, then later change it to a different color - saving time and money over purchasing a whole new portable.

### Choose Your Display and Keypad

Three keypad options are available:

- No Key, No Display model (0-key)
- 4-Key, Color Display model (4-key)
- 16-Key, Color Display (16-key)

The 4-Key and 16-key models come with a 160x128 pixel, 1.77" color display. You can customize the power-up display to contain your

logo, radio ID, assigned owner, or any other image. The display can be used to select from the 2000 channels, for text messages, caller ID, or identifying talk groups.

The 0-Key radio does not come with a display. Should you want to upgrade to a 4-key or 16-key radio with a display, the cover can quickly and easily be changed, instantly enhancing your portable to include the display and keys.

### Choose Your Label

Each radio is built with designated spaces for custom labels. Die-cut labels are high-tack adhesives, color-customized, and waterproof, alcohol, chemical and smudge resistant.

Custom-designed labels can be personalized to carry your brand logo, specific talk groups or radio type, user identification, or anything else you can imagine. This means that your radio can be completely unique to your organization, and individual radios can be personalized for each user.

### Voice Annunciation

Keep your eyes up and focused on the task at hand while changing channels or features with the voice annunciation capabilities. The loud and clear voice will give users confidence their radio is set up and functioning correctly.

## Increase Health and Safety

Reliable and clear communications are essential for health and safety. If someone on your team needs assistance, you need to trust that they can call for help. Each TP3 radio is remarkably simple to use, meaning users can quickly and easily connect to the right person or group.

If safety is a high priority in your industry, then the TP3350 model provides a series of features that help increase worker safety, such as:

- **Vibration alerts** to help ensure every text message is detected.
- **GPS**, which allows you to locate your staff, check their progress, and ensure they aren't lost or off track.
- **Man Down**, which sends an alert to dispatch when the radio detects unusual tilt or inactivity, such as when someone on your team has been injured and collapses.

Combined, GPS and Man Down enable you to quickly identify the injured person's location and the location of other workers nearby. This means help can arrive within a matter of minutes, even seconds. Fast response time can mean the difference between life and death.

GENERAL	136-174MHZ	400-480 / 450-520MHZ
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
Supported Languages	English (default), German, French, Spanish, Czech, Italian	

RECEIVER	136-174MHZ	400-480 / 450-520MHZ
Sensitivity analog	0.25µV (-119dBm) @ 12dB SINAD	0.25µV (-119dBm) @ 12dB SINAD
Sensitivity digital 5% BER	0.25µV (-119dBm) @ BER 5%	0.25µV (-119dBm) @ BER 5%
Intermodulation	TIA603 70dB; ETSI 65dB	TIA603 70dB; ETSI 65dB
Adjacent Channel Selectivity	TIA603 70dB; ETSI 65dB@25kHz TIA603 60dB; ETSI 60dB@12.5kHz	TIA603 70dB; ETSI 65dB@25kHz TIA603 60dB; ETSI 60dB@12.5kHz
Spurious Rejection TIA603	TIA603 75dB; ETSI 70dB	TIA603 75dB; ETSI 70dB
Conducted Spurious Emissions TIA603D, ETS300 086	-57dBm <1GHz, -47dBm >1GHz	-57dBm <1GHz, -47dBm >1GHz
Blocking	84dB	84dB
Rated Audio	750mW	750mW
Maximum Audio	1000mW	1000mW
Audio distortion	4% @ 500mW	4% @ 500mW
Receiver hum and noise	-40dB@12.5kHz	-40dB@12.5kHz

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

PHYSICAL SPECIFICATIONS	
IP rating, Water Ingress	IP67
Dimensions (DxWxH)	1.34 x 2.28 x 5.00in (34 x 58 x 127mm) excluding antenna, knobs, protrusions
Weight	11.53oz (327g)
With Li-ion standard battery and antenna	11.53oz (327g)
Without battery and without antenna	6.91oz (196g)
Battery only (2000mAh)	4.13oz (117g)

MILITARY STANDARDS 810 G		
Applicable MIL-STD	Method	Procedure
High temperature	501.6	2
Low temperature	502.6	2
Rain dripping	506.6	3
Vibration	514.7	1
Shock	516.7	4, 6

BATTERY SHIFT LIFE - STANDARD BATTERY (2000MAH)		
DMR Mode Shift Life	5/5/90 cycle	5/35/60 cycle
	14.5 hours	10.4 hours
Analog Mode Shift Life	12.6 hours	9.1 hours

\* Note: the use of GPS and Bluetooth, external audio accessories, radio volume setting, Transmit power and backlight settings can all have an effect on power consumption

### PRODUCT FEATURES - DIGITAL CAPABILITY

TP3300/3350	
TDMA Direct Mode	Improved channel efficiency - more users and more calls
Voice Caller ID	Indication of the calling party ID during calls
Voice Annunciation	Voice annunciation is used when changing channel or for certain other functions such as low battery
Stun or Revive	A suitably equipped and authorized user can disable a radio that is stolen, lost or being mis-used. In the event it is recovered, it can be revived and used again.
Address Book	Up to 256 Digital groups lists of 16 members
Text Messaging	DMR Standard IP Messaging Tait Optimized Texting
Encryption	ARC4
TP3350 only	
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	Discreet vibrations alert users to calls or text messages

### PRODUCT FEATURES - ANALOG CAPABILITY

TP3300/3350	
CTCSS & 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

TYPE APPROVAL DATA	136-174MHZ	400-480MHZ	450-520MHZ
Emission designators	FM 12.5kHz: 11K0F3E FM 20kHz: 14K0F3E FM 25kHz: 16K0F3E 4FSK 12.5KHz (data only): 7K60FXD 4FSK 12.5KHz (data+voice): 7K60FXE	FM 12.5kHz: 11K0F3E FM 25kHz: 16K0F3E 4FSK 12.5KHz (data only): 7K60FXD 4FSK 12.5KHz (data+voice): 7K60FXE	FM 12.5kHz: 11K0F3E FM 25kHz: 16K0F3E 4FSK 12.5KHz (data only): 7K60FXD 4FSK 12.5KHz (data+voice): 7K60FXE
FCC ID	CASTPEB1F / CASTPEB1G	CASTPEHGF / CASTPEHGG	CASTPEH7F / CASTPEH7G
ISED (Industry Canada) ID	747ATPEB1F / 747ATPEB1G	747ATPEHGF / 747ATPEHGG	747A TPEH7F / 747ATPEH7G

#### TAIT DMR SOLUTION

Backed by our proven radio network expertise, the TP3000 portable 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.taitcommunications.com](http://www.taitcommunications.com).

The word "Tait", "TAIT AXIOM", "Tait Unified", the "Tait" logo and are trademarks of Tait International Limited.

This product is manufactured in an ISO9001:2015 certified manufacturing plant.

**Your Local Tait Authorized Reseller:**  
**Alpha Prime Communications**  
 Sales . Rentals . Service  
 1808 Janke Drive, Suite E  
 Northbrook, IL 60062 USA  
 847-298-4000 . [service@alphaprimecomm.com](mailto:service@alphaprimecomm.com)

