



TP3 PORTABLES

GREAT VALUE, EASILY PERSONALIZED

The TP3 is a unique, highly customizable portable radio. Operating in DMR Tier 2 and analog it puts the power in your hands to personalize each radio in your fleet by choosing the combination of color, display, keypad and labels to suit your operation.

taⁱit
communications

TP3000 PORTABLES

BENEFITS



A multitude of colors lets you quickly identify specific teams or stand out.



Event crews hear instructions loud and clear using digital DMR technology.



Custom-designed labels to personalize radios for each user.

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, 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.

INCREASE HEALTH & 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 simple to use, meaning users can quickly and easily connect to the right person or group.

Voice annunciation capabilities allow users to keep their eyes up and focused on the task at hand while changing channels or features. 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** help ensure every text message is detected.
- **GPS** allows you to locate your staff, check their progress, and ensure they aren't lost or off track.
- **Man Down** alerts to notify 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.

TECHNICAL SPECIFICATIONS

GENERAL INFO		PHYSICAL SPECIFICATIONS	
Frequency stability	1.0 ppm -22°F to 140°F , 77°F ref (-30 to +60°C, 25°C ref)	IP Rating, Water Ingress	IP67
Digital Protocol	ETSI TS 102 361-1, 2, 3	Dimensions (DxWxH) With Li-ion standard battery	1.34 x 2.28 x 5.00in (34 x 58 x 127mm) excluding antenna, knobs, protusions
Battery voltage	7.5V	Weight	
Standard battery capacity	2000mAH Lithium-ion	With Li-ion standard battery and antenna	11.53oz (327g)
Channel capacity 0-Key radio	32	Without battery and without antenna	6.91oz (196g)
Channel capacity 4-key and 16-key radios	2000	Battery only (2000mAH)	4.13oz (117g)
Supported Languages	English (default), German, French, Spanish, Czech, Italian		

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

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) @ 12dB SINAD
Intermodulation	TIA603 70dB; ETSI 65dB	TIA603 70dB; ETSI 65dB
Adjacent Channel Selectivity	TIA603 70dB; ETSI 65dB @ 25kHz TIA603 70dB; ETSI 60dB @ 12.5kHz	TIA603 70dB; ETSI 65dB @ 25kHz TIA603 70dB; ETSI 60dB @ 12.5kHz
Spurious Rejection	TIA603 75dB; ETSI 70dB	TIA603 75dB; ETSI 70dB
Conducted Spurious Emissions (TIA603D, ETS 300 086)	-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

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

TECHNICAL SPECIFICATIONS

BATTERY SHIFT LIFE – STANDARD BATTERY (2000MAH)		
	5/5/90 cycle	5/35/60 cycle
DMR Mode Shift Life	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	Used when changing channel or for certain other functions e.g. 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

MILITARY STANDARDS		
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

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