



TITAN RADIO TR4X

Titan Radio was founded in 2009 by two former radio dealers who saw the need to offer professional quality two-way radios without the premium price. They set out to manufacture radios that were so tough, they exceeded the normal “real world” testing. Their first success was the TR200, a radio so rugged it survived extreme testing.

Since then, Titan has expanded its radio lineup and developed its own family of innovative products. These include charging cases, multi-unit universal chargers, and portable repeaters.

The TR4X offers advanced features — including audio equalizer and pseudo trunking — while remaining a cost-effective communications choice.



ERGONOMIC & EASY TO USE

The TR4X features tactile buttons for no-look PTT and emergency calling.

HIGH-QUALITY AUDIO

Audio equalizer adjusts low, mid, and high frequency gain for loud and clear private calling, group calling, and all call.

LONG-LIFE BATTERY

The powerful Li-Ion 1500mAh battery delivers up to 16 hours of operation in digital mode and 12 hours in analog mode .

RELIABLE & DURABLE

The TR4X is IP55 rated for water and dust ingress and compliant with MIL-STD-810-G for impact strength and durability. It can operate in temperatures between -22 F to +14° F (-3° C to +6° C).

EMERGENCY ALARM

Emergency Alarms can be sent to other radios via the one-touch programmable button.

ANALOG & DIGITAL AUTO DETECT

The radio simultaneously monitors analog and digital modes and automatically responds in each mode, enabling simple and cost-effective migration to digital.

PRE-PROGRAMMED TEXT MESSAGING

The TR4X allows one-touch sending of up to 10 pre-programmed text messages.

VOX

Voice-activated microphone enables hands free operation. VOX is also supported on the external earpiece and microphone accessories.

UPGRADE FEATURES (OPTIONAL)

- Encryption for secure audio and data
- Priority Interrupt allows dispatcher to interrupt existing calls with important emergency information
- Remote Monitor allows dispatcher to key the PTT button and listen in an emergency situation
- Stun/Revive enables dispatch and other users to disable/enable a radio if it is stolen, lost, or used maliciously

SYSTEMS & NETWORK FEATURES

Roaming allows radios to seamlessly move between connected repeaters with non-stop voice transmission.

The TR4X can be deployed on DMR Tier II systems.

Radio Registration Service (RRS) allows the TR4X to communicate with dispatch and unified communications applications.

TR4X

SPECIFICATIONS

GENERAL

Frequency Range	400-470 MHz (UHF) 136-174 MHz (VHF)
Capable Modes	Digital and Analog
Digital Technology	DMR Tier II
Channel Capacity	32 (2 Zones)
Channel Spacing	12.5 kHz
Operating Voltage	7.4 Volts
Standard Battery Battery Life (5-5-90 Duty Cycle)	1500 mAh Li-Ion Battery About 11 Hours
High-Capacity Battery Battery Life (5-5-90 Duty Cycle)	2000 mAh Li-Ion Battery 14-17 hours
Operating Temperature	-22° F ~ +140° F
Dimensions (H×W×D)	4.75" × 2.30" × 1.25"
Weight (With Antenna & Battery)	9.6 oz



RECEIVER

Sensitivity (Digital)	0.22 μ V/BER 5%
Sensitivity (Analog)	0.22 μ V (Typical) (12dB SIN AD)
Selectivity	60dB @ 12.5 KHz
Intermodulation	65 dB
Spurious Response Rejection	70 dB
Rated Audio Power Output	0.4 Watts (Speaker Impedance: 8 ohm)
Rated Audio Distortion	\leq 5% (.4 Watts)



TRANSMITTER

RF Power Output	4/1 Watts
Spurious and Harmonics	\leq -36 dBm
Modulation Limiting	\leq 2.5 kHz
FM Noise	\geq 36dB
Modulation Distortion	\leq 3%

*All specifications are tested according to TIA/EIA-603, and subject to change.