

TR

TITAN RADIO

DMR
DIGITAL MOBILE RADIO



TITAN RADIO

TR3X

The TR3X is an entry-level, grab-and-go digital radio that requires minimal training for users. Weighing only 5 ounces, the lightweight and compact design makes it easy to carry and operate for long shifts.

It has 2W of output power, which provides suitable range for small and medium workplaces like retail, hospitality, and single-site school campuses.

Excellent Performance and Value

The TR3X provides reliable communications and crystal clear digital audio. Its powerful Li-Ion battery lasts for up to 16 hours of operation.

Rugged & Reliable

The TR3X meets MIL-STD-810-G for shock and vibration, and IP54 for dust and water resistance to guarantee reliability in harsh environments.

Analog or Digital

Many radio manufacturers are discontinuing their legacy analog radio systems, and the TR3X can be configured to operate in analog or digital mode to provide a simple and cost-effective way to migrate to modern digital radios.



ERGONOMIC & EASY TO USE

The TR3X features tactile buttons for no-look PTT and emergency calling.

ANALOG & DIGITAL AUTO DETECT

The radio operates in analog or digital mode and allows switching between the two modes. This enables a simple and cost-effective migration path from analog to digital.

HIGH-QUALITY AUDIO

DMR digital technology provides excellent audio quality for reliable communication.

Extended Talk Range

Innovative receiving technology extends talk range.

LONG-LIFE BATTERY

Powerful Li-Ion 2200mAh battery delivers up to 16 hours of operation in digital mode and 12 hours in analog mode.

RELIABLE & DURABLE

Compliant with MIL-STD-810-G for shock and vibration and IP54 rated for water and dust resistance.

SCANNING

Allows listening to communication on other channels.

EMERGENCY CALLING

One-touch emergency alarms can be sent to other radios with the programmable button, improving worker safety and emergency response time.

ANTI-INTERFERENCE

Digital encoding and error correcting reduces signal interference on the same frequency.

DMR

DMR signaling enables group call, private call, and all call transmitting with PTT ID. The TR3X supports DMR Tier II repeaters to extend coverage.

VOX

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

AUDIO CHANNEL ANNOUNCEMENT

Voice announcement of channel number for quick and accurate channel switching, even in low visibility.

TR3X

SPECIFICATIONS

DMR
DIGITAL MOBILE RADIO

GENERAL

Frequency Range	400-470 MHz (UHF)
Capable Modes	Digital and Analog
Digital Technology	DMR Tier II
Channel Capacity	48 (3 Zones)
Channel Spacing	12.5 kHz
Operating Voltage	3.7 Volts
Standard Battery	2200 mAh Li-Ion Battery
Battery Life (5-5-90 Duty Cycle)	About 16 Hours
Operating Temperature	-22° F ~ +140° F
Dimensions (H×W×D)	4.25" × 1.93" × 1.15"
Weight (With Antenna & Battery)	5.7 oz
Frequency Stability	±0.5 ppm
Dust & Waterproof	IP54 Standard

RECEIVER

Sensitivity (Digital)	0.22 µV/BER 5%
Sensitivity (Analog)	0.22 µV (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	≤5% (.4 Watts)

TRANSMITTER

RF Power Output	2/0.5 Watts
Spurious and Harmonics	≤-27 dBm
Modulation Limiting	≤2.5 kHz
FM Noise	≥40dB
Modulation Distortion	≤3%

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



Single Pin Twist Lock Connector

