

TX2440 mmWave Transmitter

Portable Solution for 5G Network Design



The unique propagation characteristics of 5G mmWave signals require upfront testing with a Continuous Wave (CW) transmitter to ensure proper network design. PCTEL's portable, high-power TX2440 mmWave Transmitter propagates mmWave signals at any venue for convenient testing with PCTEL® scanning receivers.

Features

- Intuitive, customizable interface
- Up to 5 hours continuous transmission with hot-swappable battery pack*
- Small, lightweight form factor
- Compatible with horn and omnidirectional antennas (sold separately)

Applications

- Determine RF propagation characteristics of the venue for prediction models
- Provide inputs to design tools
- Validate preliminary designs
- Determine coverage overlap for soft handoff locations

Bands

- Supports CW transmission from 24 GHz to 40 GHz



SPECIFICATIONS

TX2440 mmWave Transmitter

Portable Solution for 5G Network Design

Specifications

RF Characteristics

Active RF Ports	1
Frequency Bands	24 GHz to 40 GHz
Frequency Step	1 MHz
Modulation	Continuous Wave (CW)
Output Power (Fixed)	27 dBm 24-36.999 GHz 26 dBm 37-40 GHz
Power Accuracy	+/- 1 dB
RF Output	50 ohm, 2.92 mm (k) Female

Power Supply

Maximum Input Power (10.5 to 20.5 VDC)	40 Watts
Battery Operating Time (continuous maximum output power)*	5 hours (at room temperature)
Battery Standby Time*	6 hours (at room temperature)

Physical Characteristics

External Dimensions	9.8" H x 10.6" W x 3.6" D (249mm H x 270mm W x 91mm D) 9.8" H x 10.6" W x 5.7" D (249mm H x 270mm W x 145mm D) with battery*
Weight	4.3 lbs (1.94 kg) includes built-in amplifier Additional 10.4 lbs (4.7 kg) for attachable battery
Operating Temperature	-5°C to +40°C
Humidity	5% to 95% relative humidity, non-condensing
Safety (CE)	EN 62368-1
EMC	EN 301 489-1
Shock and Vibration	MIL-STD-810G, SAE J1455
RoHS	Directive 2011/65/EU and amendment 2015/863 (RoHS 3)

*Battery pack optional. Standard packages include handheld transmitter, AC/DC power supply, and product manuals.

Accessories

Standard packages include handheld transmitter, AC/DC power supply, and product manuals. Battery packs, mmWave horn antennas, and mmWave omnidirectional antennas are available separately.

Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.

For more information about PCTEL Test & Measurement solutions, contact your sales representative or visit pctel.com/test-measurement



PCTEL, Inc.

T: +1 301 515 0036 | pctel.com

Specifications subject to change without notice. PCTEL® is a registered trademarks or trademarks of PCTEL, Inc.
©2022 PCTEL, Inc. All rights reserved. Rev C (July 2022)