

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

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Specifications (Preliminary)

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 | 4.8 lbs (2.2 kg) includes built-in amplifier Additional 5.6 lbs (2.5 kg) for attachable battery |
| Operating Temperature | -5 deg to +40 deg 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, including purpose-built Industrial IoT devices, antenna systems, and test and measurement solutions. 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



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