# Trimble EM450

## UHF FMPOWER RADIO MODULE

The Trimble® EM450 is a UHF-band RTK radio module. It has the capability of receiving transmissions, typically RTK GNSS corrections, on the traditional UHF (410-470 MHz) frequency bands. EM450 provides radio link support for new and legacy receivers that do not have internal radios so they can work with traditional base setups.

- Frequencies: 410-473 MHz
- · Channel bandwidth: 25 KHz, 12.5 KHz
- Channel frequency step: 6.25 KHz
- · Single antenna for all UHF frequencies

#### PHYSICAL DIMENSIONS

- Dimensions (Lx Wx H): 116 mm x 56 mm x 35 mm (4.56" x 2.20" x 1.37")
- · Length with antenna: 250 mm (9.84")
- Weight with antenna: 152 g (5.36 oz)
- Housing: PC + PET material
- · Color: black

#### **COMPLIANCE CERTIFICATIONS**

• FCC & IC approval; ACMA approval; CE Mark; UKCA: NCC

### IN THE BOX

- Trimble EM450 Empower module
- UHF antenna
- Antenna connector dustcap

#### SOFTWARE SUPPORT

- Trimble Access™
- Trimble Siteworks
- Spectra Geospatial® Origin
- Trimble Empower<sup>™</sup> Hub

#### **ENVIRONMENTAL SPECIFICATIONS**

• Dust and water ingress: IP68 (IEC 60529)

Meets or exceeds the following standards based on MIL-STD-810H test ratings:

- Drops: Survives multiple drops from 1.2 m (4 ft) onto concrete\*; Method 516.8, Procedure IV
  - Drop test temperatures: ambient cold drop -30 °C (-22 °F), hot drop at 60 °C (140 °F)
- Operating temperature: -30 °C to +60 °C (-22 °F to +140 °F)
- Storage temperature: -40 °C to +70 °C (-40 °F to +158 °F);
- Temperature shock: -35 °C to +65 °C (-31 °F to +149 °F);
- Humidity: 95% relative humidity temperature cycle between 30 °C and 60 °C (86 °F and 140 °F); MIL-STD-810H, Method 507.6, Procedure II
- · Vibration: General minimum integrity and loose cargo tests; Method 514.8, Procedure I & II
- · Low pressure altitude storage, operational, rapid decompression: MIL-STD-810H, Method 500.6, Procedures I. II. III.
- · Contamination: Method 504.3, Procedure II

\* Drop tested on all faces, corners and edges (26 drops) while attached to host device.





Trimble TSC7 controller



Trimble TSC5 controller



Trimble T100 tablet



Trimble T7 tablet

Contact your local Trimble Authorized Distribution Partner for more information

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