



Trimble EM940

UHF & 900 MHz EMPOWER RADIO MODULE

The Trimble® EM940 dual mode radio receiver Empower™ module is designed to support receiving GNSS RTK corrections from a variety of base radio systems. It supports both the UHF frequency bands (410–473 MHz) and the 900 MHz spread spectrum bands. The EM940 provides flexibility, compatibility, and reliability supporting radio-delivered corrections to most rover receivers. EM940 is supported by all current Trimble devices that support Empower slots.

UHF

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

900 MHz

- Supports frequency bands by region within the 902–928 MHz range based on the selection in the application software.
- Frequency Hopping Spread Spectrum
- Single antenna for all 900 MHz 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 EM940 Empower module
- UHF antenna
- 900 MHz antenna
- Antenna connector dustcap

SOFTWARE SUPPORT

- Trimble Access™
- Trimble Siteworks
- Spectra Geospatial® Origin
- Trimble Empower™ 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

NORTH AMERICA
Trimble Inc.
10368 Westmoor Dr
Westminster CO 80021
USA

EUROPE
Trimble Germany GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY

ASIA-PACIFIC
Trimble Navigation
Singapore PTE Limited
3 HarbourFront Place
#13-02 HarbourFront Tower Two
Singapore 099254
SINGAPORE

© 2023, Trimble Inc. All rights reserved. Trimble and the Globe & Triangle logo, and Spectra Geospatial are trademarks of Trimble Inc., registered in the United States and in other countries. Access and Empower are trademarks of Trimble Inc. All other trademarks are the property of their respective owners. PN 022516-684 (03/23)