# Trimble EMPOWER

# EM120 2.4 GHZ MODULE

The Trimble® EMPOWER EM120 is a rugged, lightweight, EMPOWER module that can connect to any Trimble EMPOWER base device. It is designed to allow communication between Trimble roboticenabled total stations and compatible base devices—providing seamless integration to robotic total stations through a wider range of data collectors—without compromising range or robotic functionality.

### **RADIO**

· 2.4 GHz radio

### **ENVIRONMENTAL SPECIFICATIONS**

## Independently tested IEC ratings:

Water/dust ingress..... ... protected against the effects of total water immersion beyond 1 m for long periods under pressure—user stated requirement IP-6X Protected against dust; IEC-60529, dust chamber with under-pressure 8 hours of operation with blowing talcum powder

Meets or exceeds the following standards based on MIL-STD-810G test ratings: (low temp operating -30 °C); Method 501.5, Procedure I & II

(high temp operating +60 °C) (max temp may be duty-cycle limited)

-40 °C to +70 °C (-40 °F to +158 °F); Method 502.5, Procedure I, II, III

(low temp storage -40 °C); Method 501.5, Procedure I & II (high temp storage +70 °C)

Cycles between -30 °C and +60 °C (-22 °F and +144 °F); Method 503.5, Procedure I-C Storage temperature..... ...... General minimum integrity and loose cargo tests; Method 514.6, Procedure I & II, Category 5 

# PHYSICAL DIMENSIONS

- Dimensions (L x W x H): 102.5 mm x 55 mm x 49.7 mm (4.04" x 2.17" x 1.96")
- Weight: 163 g (5.75 oz)
- Housing: Polycarbonate + Polycarbonate/PET blend
- · Color: Black

# **COMPLIANCE CERTIFICATIONS**

- FCC and IC (USA & Canada) approvals
- · ACMA (Australia & New Zealand) approvals ANATEL (Brazil) approvals
- · CE Mark (Europe) approvals
- TRA (UAE) approvals
- ICASA (South Africa) approvals
- · Safety: NRTL & CB Scheme, RoHS compliant

# IN THE BOX

- Trimble EM120 EMPOWER module
- · External antenna
- Quick start guide







# **Key Features**

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- ▶ Rugged: Meets the rigorous MILSTD-810G military standard for drops, vibration, humidity, and extreme temperatures with IP68 rating for dust and water ingress
- Trimble EMPOWER: The EMPOWER solution expands the capabilities of your base unit now or in the future with optional modules



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NORTH AMERICA

Trimble Inc. 10368 Westmoor Dr Westminster CO 80021

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

