DATASHEET

Trimble Empower

EM130 WI-FI HALOW MODULE

The Trimble® Empower™ EM130 Wi-Fi HaLow™ module is rugged, lightweight and designed to be paired with the Trimble SX12 total station with Wi-Fi HaLow technology. With the addition of Wi-Fi HaLow, the SX12 total station can achieve long-range communication using a single radio link, while maintaining a robust and quick connection.

RADIO

- Wi-Fi HaLow operating frequency: 902–928 MHz

ENVIRONMENTAL SPECIFICATIONS

Independently tested IEC ratings:

- Dust/water ingress: IP68 (IEC 60529)
- IP-X8: 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:

- Drops: survived multiple drops of 1.2 m (4 ft) on concrete; Method 516.6, Procedure IV, Transit Drop
- Operating temperature: -30 °C to +60 °C (-22 °F to +140 °F); Method 502.5, Procedure I, II, III (low temp operating -30 °C); Method 501.5, Procedure I & II (high temp operating +60 °C) (max temp may be duty-cycle limited)
- Storage temperature: -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)
- Temperature shock: cycles between -30 °C and +60 °C (-22 °F and +144 °F); Method 503.5, Procedure I-C
- Humidity: 90% relative humidity non-condensing temperature cycle between -30 °C and +60 °C (-22 °F and +144 °F); Method 507.5, Procedure II
- Vibration: general minimum integrity and loose cargo tests; Method 514.6, Procedure I & II, Category 5
- Solar exposure: survives prolonged UVB exposure; Method 505.5, Procedure II

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: 177 g with antenna (6.24 oz)
- Housing: Polycarbonate + Polycarbonate/PET blend
- Color: Black

COMPLIANCE CERTIFICATIONS

- FCC and IC (USA & Canada) approvals
- ACMA (Australia & New Zealand) approvals
- Safety: NRTL & CB Scheme, RoHS compliant

IN THE BOX

- Trimble EM130 Wi-Fi HaLow Empower Module
- External antenna
- Dust cap

Key Features

- **Rugged:** Meets the rigorous MIL-STD-810G military standard for drops, vibration, humidity, and extreme temperatures with IP68 rating for dust and water ingress.
- **Support for multiple controllers:** The modular Empower solution allows you to select the controller that best suits your needs. EM130 is compatible with the Trimble TSC7, Trimble T7, Trimble T100 and Trimble TSC5 controllers.

Contact your local Trimble Authorized Distribution Partner for more information

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