

Spectra Precision FOCUS[®] SPDL2.4 Radio Bridge

Datasheet



Rugged and Lightweight

Features

- Compatible with multiple platforms: Android, Microsoft[®] Windows & Windows Mobile (WEHH)
- IP54 environmental protection and MIL-STD-810G ruggedness
- Bluetooth[®] connectivity
- FOCUS 2.4GHz radio connectivity

Spectra Precision FOCUS SPDL2.4 Radio Bridge

The FOCUS SPDL2.4 Radio Bridge is a rugged, lightweight, custom accessory designed to allow communication between Spectra Precision robotic total stations and Bluetooth-enabled mobile devices. The SPDL radio will connect via Bluetooth to a field controller (e.g. Spectra Precision T41) and allow the onboard software controller to communicate (via the Radio Bridge) with a 2.4GHz radio enabled FOCUS total station.



Spectra Precision FOCUS SPDL2.4 Radio Bridge

Buttons

Power Button

- Press to cycle on/off
- Status LED:
 - Green solid for ON

Communication Button

- Press to initiate pairing
- Status LED:
 - Blue LED flashing for Bluetooth connection attempt, Blue LED solid for established connection
 - Amber LED flashing for Cirronet connection attempt, Amber LED solid for established connection
 - Green LED solid for established connection.

Battery Level Button

- Press to initiate Battery level query
- Status LED:
 - 3 Green 70-100%, 2 Green 40- 69%, 1 Green 10- 39%,
 - Red light 3-9% Red flashing LED: critical battery

Power

Battery Type

- Field replaceable Lithium-Ion pack (Rechargeable inside unit)

Battery Capacity

- 5200 mAh Li-Ion

Battery Life

- 36 hours

Charging Time

- 5 hours (typical, with supplied charger)

Mechanical

Ingress Protection

- Protection Rating: IP 54

Weight

- 405 grams

Power Connector

- Micro-B USB Female (charging and firmware update)

External Antenna Connector

- SMB Female

Environmental Characteristics

Temperature (MIL-STD-810G)

- Operation: -20 °C to +60 °C (-4 °F to +140 °F)
- Storage: -30 °C to +70 °C (-22 °F to +158 °F)

Drop Shock

- MIL-STD-810G Method 516.5 Procedure IV
 - 1.2 m (4 ft) to plywood over concrete

Functional Shock

- MIL-STD-810 Method 516.6 Procedure I

Vibration

- MIL-STD-810G Method 514.5 Procedure I, Category 24

Humidity

- MIL-STD-810G Method 507.6 (95% non-condensing)

Altitude Rating

- MIL-STD-810G Method 500.5
 - Maximum storage altitude 12,192 m (40,000 ft)
 - Maximum operational altitude 9,000 m (29,520 ft)

Chemical Exposure

- MIL-STD-810 Method 504.1 Procedure I

Salt Mist

- MIL-STD-810G Method 509.5

Compliance

- FCC, CE, RoHS

Standard Accessories

- USB cable
- International charging kit
- Antenna
- Pole clip
- Li-ion battery

Optional Accessories

- External battery charger



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