Rugged, Mobile Data Collection Tablet

Withstands same outdoor conditions as Campbell Scientific equipment

Overview

The Mesa 2 Rugged Tablet, manufactured by Juniper Systems, offers a sleek package with the highest-rated protection against water and dust, enabling it to endure the harshest environments in existence. Running Windows 10 (or Windows 8.1), the Mesa 2 brings powerful functionality to mobile data collection. The Mesa 2 features a large, 7 in., extra-bright display for easily viewing maps or images, all-day battery power lasting up to 15 hours, and unmatched ruggedness.

With a full Windows operating system, the entire data collection process can be carried out, from start to finish, on the Mesa 2. For example, a user can snap a photo, record field notes, or capture a GNSS location, and then analyze the data that was just collected using the Mesa 2. Its fast processor and lightweight, ergonomic design ensure maximum efficiency and minimal fatigue. The Mesa 2 packs all the functionality of a desktop computer into one ultra-tough tablet, making it a portable office for any environment.

Benefits and Features

- Windows 10 operating system for powerful, versatile functionality
- Extra-large display for maximum visibility in any lighting conditions
- Portrait or landscape orientation with automatic screen rotation
- Projected capacitive multi-touch interface for use with gloves or small-tip stylus, and in wet conditions
- All-day battery life
- Superior ergonomics and lightweight design for maximum comfort and minimal fatigue
- IP68 rating for complete protection against water and dust

Detailed Description

Campbell Scientific offers four versions of the Mesa 2, which are outlined below.

MS2-100 STD N. America

This standard model offers Wi-Fi and Bluetooth technology and is configured for use in North America.

MS2-101 STD EU/CE

This standard model offers Wi-Fi and Bluetooth technology and is configured for use in the European Union and has a CE marking.

For comprehensive details, visit: www.campbellsci.com/mesa2
### MS2-102 GEO N. America
This geo model is configured for use in North America and offers the following features:

- Wi-Fi and Bluetooth
- GNSS
- 8 MP rear camera
- 2 MP front camera

### MS2-103 GEO EU/CE
This geo model is configured for use in European Union, has a CE marking, and offers the following features:

- Wi-Fi and Bluetooth
- GNSS
- 8 MP rear camera
- 2 MP front camera

### Specifications

| Display/Keyboard Description | 17.78 cm (7 in.) display and touch sensor |
| Processor | Quad-core Intel Atom Z3745 processor |
| Operating System and Software | Microsoft Windows 8.1/10 |
| Languages Supported | English, French, Spanish, German, Portuguese |
| Memory and Data Storage | 64 GB or 128 GB flash storage options, 4 GB RAM (LPDDR3), User-accessible MicroSDXC card slot |
| Graphics | Intel HD Graphics |
| Active Viewing Area | 178 mm (7 in.) |
| Resolution | WXGA (1280 x 800) |
| Wireless Connectivity Options | Long-range Bluetooth Smart Ready wireless technology, v4.0 +EDR, Class 1.5, BLE support, Wi-Fi 802.11 a/b/g/n, 2.4 GHz and 5 GHz, 4G LTE, support for GSM or Verizon networks |
| Battery | Removable Li-Ion battery, 39 Whr, Operates 8 to 10 hours on one charge |
| Ingress Protection | IP68 waterproof and dustproof |
| Temperature Range | -20° to +50°C (operating), -30° to +70°C (storage) |
| Ports | Docking port connections (Pwr, USB 2.0, and HDMI), 12 Vdc power input jack, Optional RS-232 9-Pin D-Sub connector with 5 Vdc power output |

### Certifications and Standards
- Industry Canada
- EN60950 Safety
- RoHS 2 Compliant
- FCC Class B
- CE Marking (applicable EMC, R&TTE, and LVD directives)

### Designed for MIL-STD-810G Test Procedures
- Method 503.5 Temperature Shock
- Method 516.6 Shock
- Method 514.6 Vibration
- Method 512.5 Immersion
- Method 500.5 Low Pressure (Altitude)
- Method 501.5 High Temperature
- Method 502.5 Low Temperature
- Method 510.5 Sand and Dust
- Method 507.5 Humidity
- Method 506.5 Rain

### Dimensions
- 215 x 137 x 35 mm (8.48 x 5.40 x 1.36 in.)

### Weight
- 680 to 907 g (1.5 to 2.0 lb) depending on battery configuration

#### GEO Version: Camera
- Rear: 8 MP (with LED illumination)
- Front: 2 MP

#### GEO Version: GPS/GNSS
- Typical Accuracy: 2 to 5 m (6.56 to 16.4 ft)
- Antenna Type: uBlox NEO-M8N GNSS receiver and integrated antenna
- Receiver Type: Integrated real-time SBAS receiver (WAAS, EGNOS, etc.)
- Tracking Channels: 72 GNSS tracking channels

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