



## Mesa 2

MS2-100 Rugged Tablet, Standard North American Model



## 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.

## MS2-102 GEO N. America

This geo model is configured for use in North America and offers the following features:

- › Wif-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:

- › Wif-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	<ul style="list-style-type: none"><li>› 64 GB or 128 GB flash storage options</li><li>› 4 GB RAM (LPDDR3)</li><li>› User-accessible MicroSDXC card slot</li></ul>
Graphics	Intel HD Graphics
Active Viewing Area	178 mm (7 in.)
Resolution	WXGA (1280 x 800)
Wireless Connectivity Options	<ul style="list-style-type: none"><li>› Long-range Bluetooth Smart Ready wireless technology, v4.0 +EDR, Class 1.5, BLE support</li><li>› Wi-Fi 802.11 a/b/g/n, 2.4 GHz and 5 GHz</li><li>› 4G LTE, support for GSM or Verizon networks</li></ul>
Battery	<ul style="list-style-type: none"><li>› Removable Li-Ion battery, 39 Whr</li><li>› Operates 8 to 10 hours on one charge</li></ul>
Ingress Protection	IP68 waterproof and dustproof
Temperature Range	<ul style="list-style-type: none"><li>› -20° to +50°C (operating)</li><li>› -30° to +70°C (storage)</li></ul>
Ports	<ul style="list-style-type: none"><li>› Docking port connections (Pwr, USB 2.0, and HDMI)</li><li>› 12 Vdc power input jack</li><li>› Optional RS-232 9-Pin D-Sub connector with 5 Vdc power output</li></ul>

	<ul style="list-style-type: none"><li>› USB 3.0 x 1</li><li>› 3.5 mm audio jack</li></ul>
Certifications and Standards	<ul style="list-style-type: none"><li>› Industry Canada</li><li>› EN60950 Safety</li><li>› RoHS 2 Compliant</li><li>› FCC Class B</li><li>› CE Marking (applicable EMC, R&amp;TTE, and LVD directives)</li></ul>
Designed for MIL-STD-810G Test Procedures	<ul style="list-style-type: none"><li>› Method 503.5 Temperature Shock</li><li>› Method 516.6 Shock</li><li>› Method 514.6 Vibration</li><li>› Method 512.5 Immersion</li><li>› Method 500.5 Low Pressure (Altitude)</li><li>› Method 501.5 High Temperature</li><li>› Method 502.5 Low Temperature</li><li>› Method 510.5 Sand and Dust</li><li>› Method 507.5 Humidity</li><li>› Method 506.5 Rain</li></ul>
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

For comprehensive details, visit: [www.campbellsci.com/mesa2](http://www.campbellsci.com/mesa2)



Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784 | (435) 227-9120 | [www.campbellsci.com](http://www.campbellsci.com)  
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