



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">› 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	<ul style="list-style-type: none">› 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	<ul style="list-style-type: none">› Removable Li-Ion battery, 39 Whr› Operates 8 to 10 hours on one charge
Ingress Protection	IP68 waterproof and dustproof
Temperature Range	<ul style="list-style-type: none">› -20° to +50°C (operating)› -30° to +70°C (storage)
Ports	<ul style="list-style-type: none">› 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

	<ul style="list-style-type: none">› USB 3.0 x 1› 3.5 mm audio jack
Certifications and Standards	<ul style="list-style-type: none">› 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	<ul style="list-style-type: none">› 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

For comprehensive details, visit: www.campbellsci.com/mesa2



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