



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	› 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

	› USB 3.0 x 1 › 3.5 mm audio jack
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

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



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