mesa²

The **Mesa 2 Rugged Tablet** brings with it a whole new data collection experience. As the first Juniper Systems device to run a full Windows® operating system, the Mesa 2 allows you to collect and analyze your data from start to finish, without ever touching a desktop. The following specifications describe the inner workings of the Mesa 2, ensuring absolute ruggedness and reliability, and enabling it to become your office, anywhere.

PROCESSOR
- Quad-core Intel® Atom™ Z3745 processor

OPERATING SYSTEM AND SOFTWARE
- Microsoft® Windows 8.1/10
- Multiple languages supported (English, French, Spanish, German, Portuguese)

MEMORY AND DATA STORAGE
- 4 GB RAM (LPDDR3)
- 64 GB or 128 GB flash storage options
- User-accessible MicroSDXC card slot

GRAPHICS
- Intel® HD Graphics

DISPLAY
- Active viewing area: 7" (178 mm)
- Resolution: WXGA (1280 x 800)
- High-visibility backlit LCD for best-in-class sunlight view-ability
- Portrait or landscape orientation with automatic screen rotation

TOUCH SCREEN
- Projected capacitive multi-touch interface for use with gloves, small tip stylus, and in wet conditions
- Optically bonded for increased visibility and strength
- Chemically-strengthened Dragontrail™ High Ion-Exchange (HIE™) cover glass for excellent impact and scratch resistance

KEYBOARD
- Adjustable LED backlit keys
- Four-way directional navpad
- Windows/home key
- Power key
- Enter key
- Three user-programmable function keys
- OEM configurable/customizable

PORTS
- USB 3.0 x 1
- 3.5 mm audio jack
- 12 VDC power input jack
- Docking port connections (Pwr, USB 2.0, & HDMI)
- Loud output speaker for noisy environments
- Dual digital microphone input for improved clarity
- Optional RS-232 9-Pin D-Sub connector with 5VDC power output

BATTERY
- Removable Li-Ion battery, 39 Whr
- Operates 8–10 hours on one charge
- Removable battery, easily changeable in field
- Optimized for strong performance in cold temperatures
- Excellent lifecycle performance
- Optional internal 19-Whr battery provides hot-swap capability and an additional 4–5 hours runtime

PHYSICAL
- Size: 5.40" w x 8.48" l x 1.36" d (137 x 215 x 35 mm)
- Weight: 1.5–2 lbs (680–907 g) depending on battery configuration
- Durable, chemical- and shock-resistant design
- Easy-to-grip, impact-absorbing, overmolded bumpers
- Lightweight and ergonomic design

JUNIPER RUGGED™
- IP68 waterproof and dustproof
- Operating temperature: -4 F to 122 F (-20 C to 50 C)
- Storage temperature: -22 F to 158 F (-30 C to 70 C)
- Shockproof: multiple drops from 4' (1.2 –1.5 m) onto concrete
- Designed for MIL-STD-810G test procedures: Method 500.5 Low Pressure (Altitude); Method 501.5 High Temperature; Method 502.5 Low Temperature; Method 503.5 Temperature Shock; Method 506.5 Rain; Method 507.5 Humidity; Method 510.5 Sand and Dust; Method 512.5 Immersion; Method 514.6 Vibration; Method 516.6 Shock

WIRELESS CONNECTIVITY OPTIONS
- Long-range Bluetooth® Smart Ready 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

CAMERA (GEO MODELS)
- Rear: 8 MP with LED illumination
- Front: 2 MP
- Juniper Geotagging™: embed photo with date, time, and GNSS position

GPS/GNSS (GEO MODELS)
- 2 to 5 meter typical accuracy
- uBlox NEO-M8N GNSS receiver and integrated antenna
- Integrated real-time SBAS receiver (WAAS, EGNOS, etc.)
- 72 GNSS tracking channels
- Optional: uBlox NEO-M8T w/post-processing capability and external GNSS antenna pass-through connection for sub-meter accuracy

BARCODE 1D/2D IMAGER (BARCODE MODELS)
- Optional built-in barcode imager and decoder
- Symbologies: all common 1D and 2D (PDF 417, MicroPDF417, Composite, RSS, TLC-39, Data matrix, QR code, Micro QR code, Aztec, MaxiCode, Postal codes, etc.)
- Programmable trigger buttons
- Visible aiming bullseye with low-light illumination
- Barcode Connector™ Utility, wedge and configuration, SDK support available

UHF RFID (RFID MODELS)
- Optional built-in UHF RFID module and internal antenna
- Region-specific frequency configurations (859–873 MHz & 915–930 MHz)
- EPCglobal Gen 2 (ISO 18000-6C) protocol support
- Wide output range (0 dBm to +27 dBm)

OTHER FEATURES
- Ambient light sensor
- Compass
- Accelerometer
- Gyroscope
- TPM (Trusted Platform Module) v2.0

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

STANDARD ACCESSORIES
- Standard removable battery
- AC wall charger with international plug kit
- Capacitive small-tip stylus w/tether
- Quick Start Guide
- Hand strap
- Connector port dust cover

JUNIPER®
systems