10.5" SLIM RUGGED TABLET PC | MW-100

Standard Configuration Available | ODM/OEM Customization Supported



KEY FEATURES

- 10.5-inch IPS display with 1920 × 1280 resolution and 600 nits of brightness
- Intel® Processor N200; optional Intel® Processor N150
- Windows 11 IoT Enterprise LTSC 2024; optional: Windows 11 Pro
- IP66-rated dust and water protection
- 5 ft (1.5 m) drop resistance; MIL-STD-810H tested for drop, shock, and vibration
- Wi-Fi 6E and Bluetooth® 5.2; optional 4G LTE
- Dual USB Type-C ports, magnetic charging, and a dedicated docking connector
- Programmable function button; optional built-in 2D barcode scanner
- Optional rear expansion interface for application-specific integration

The MW-100 is a slim 10.5-inch rugged computing platform for industrial and field applications, with an Intel® N200 processor and Windows 11 IoT Enterprise LTSC 2024 in its standard configuration. Optional Intel® N150 and Windows 11 Pro configurations accommodate different computing and operating system requirements. Docking and charging accessories support deployment, while optional features include 4G LTE, a built-in 2D barcode scanner, and rear modules for CAC card reading, RFID/NFC/UWB, or high-precision GPS. For requirements beyond the available options, Estone works with customers to define and develop hardware, software, and integration solutions, subject to technical feasibility and order volume.

SPECIFICATIONS

RUGGEDNESS

IP Rating	IP66
Drop Resistance	5 ft (1.5 m), per MIL-STD-810H, Method 516.8, Procedure IV
Shock Rating	MIL-STD-810H, Method 516.8, Procedure I
Vibration Rating	MIL-STD-810H, Method 514.8, Procedure I

SYSTEM

Processor & Graphics	**Intel® Processor N200 (Alder Lake-N)** 4 cores, up to 3.7 GHz, 6 MB Intel® Smart Cache *Intel® UHD Graphics* **Optional:** **Intel® Processor N150 (Twin Lake)** 4 cores, up to 3.6 GHz, 6 MB Intel® Smart Cache *Intel® Graphics*
Memory	8 GB LPDDR5
Storage	128 GB UFS 3.1
Operating System	Windows 11 IoT Enterprise LTSC 2024 Optional: Windows 11 Pro
Hardware Security	TPM 2.0

DISPLAY

Screen Size	10.5-inch IPS LCD
Resolution	1920 × 1280
Brightness	600 nits
Contrast Ratio	1500 : 1
Touch Screen	Capacitive 10-Point Multi-Touch
Coating (Optional)	Anti-glare (AG) / Anti-fingerprint (AF)

MECHANICAL

Dimensions (W × H × D)	246.6 × 185.6 × 11.6 mm
Weight	800 g
VESA Mount	75 × 75 mm, Screw Specifications: M3 Type

COMMUNICATIONS

Wi-Fi	Wi-Fi 6E (Intel® AX210)
Bluetooth	Bluetooth® 5.2
Cellular (Optional)	4G LTE (M.2 module)

I/O INTERFACES

Sensors	Ambient light sensor; accelerometer
LED Indicators	1 × charging indicator; 1 × power indicator
Audio	1 × built-in microphone; 2 × integrated speakers
Camera	Front: 5 MP Rear: 13 MP with autofocus
USB	2 × USB 3.1 Type-C ports (charging, data transfer, and display output)
SIM Card Slot (Optional)	1 × SIM card slot
Charging Connector	1 × magnetic charging connector
Docking Connector	1 × 14-pin docking connector (USB 2.0 and charging)
Expansion Connector (Optional)	1 × 10-pin rear pogo-pin connector (USB 2.0)
Buttons	1 × power button 1 × volume rocker (up/down) 1 × programmable function button
Barcode Scanner (Optional)	Built-in 2D barcode scanner

POWER

AC Adapter	Input: 110–220 V AC Output: 12 V DC, 3 A; magnetic connector
Battery	2S1P, 7.6 V, 4100 mAh (31 Wh)

ENVIRONMENTAL

Operating Temperature	−10°C to 50°C (14°F to 122°F)
Storage Temperature	−20°C to 60°C (−4°F to 140°F)
Humidity	10% to 90% RH, non-condensing

CERTIFICATIONS & COMPLIANCE

Regulatory Compliance	FCC (USA); CE marking (EU/EEA); IC (Canada); RCM (Australia); UKCA (Great Britain)
Safety Certification	ETL
Medical Safety & EMC Standards	IEC 60601-1; IEC 60601-1-11; IEC 60601-1-2
Battery Safety	IEC 62133
Battery Transport	UN 38.3
Environmental Compliance	RoHS
Additional Certification Support	Regional or industry-specific certifications can be supported upon request, subject to project requirements and technical feasibility.

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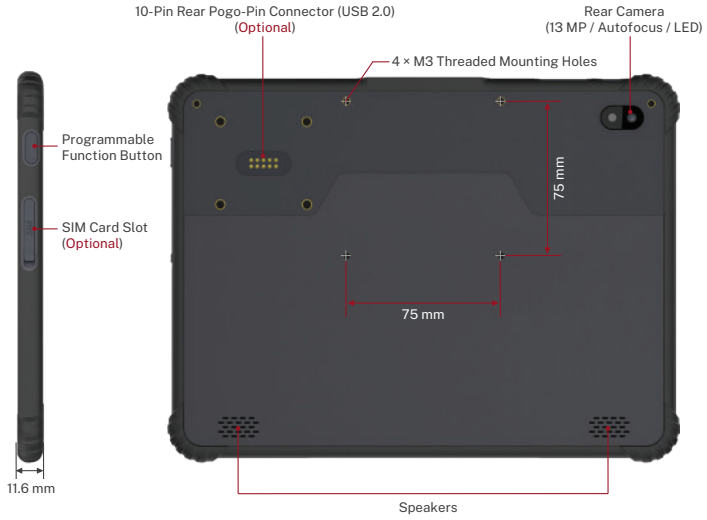
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DIMENSIONS AND SYSTEM LAYOUT





OPTIONAL ACCESSORIES AND APPLICATION MODULES



Hand Strap



Built-in 2D Barcode Scanner (Optional)



Shoulder Strap



Docking Station



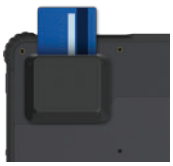
Active Stylus



4-Port Charging Station

Optional modules via 10-Pin Rear Pogo-Pin Connector (USB 2.0)





CAC Card Reader



RFID/NFC/UWB Module



High-Precision GPS Module

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