10.1" RUGGED TABLET PC | MS-100A

FEATURES

- 10.1'' IPS LCD Display (1920 x 1200 Resolution)
- Qualcomm SDM660, Octa-core Qualcomm® Kryo™ 260
- Android 10
- IP67 Water & Dust Protection
- 4ft Drop / Shock Protection (MIL-STD-810G)
- Long Lasting Battery (12 Hours Standard Operation)
- WiFi (2.4GHz & 5GHz), Bluetooth 5.0, GPS
- Dock Pogo Connector Supports Optional Peripherals
- Options: NFC, RFID, Smart Card Reader, Barcode Reader, Rail Magnetic Stripe Reader

The 10.1" rugged tablet is built for professionals in demanding fields such as field services, logistics, construction, and manufacturing. It features a 1920 x 1200 IPS LCD display, ensuring clear visuals even in sunlight. Powered by the Qualcomm SDM660 Octa-core processor, it delivers strong multitasking performance. Its IP67 water/dust protection and MIL-STD-810G certification ensure durability in tough environments. With a 12-hour battery life and a dock pogo connector for peripherals, it supports modules like NFC, RFID, and barcode reader, offering versatile solutions for industries like warehousing and public safety.

SPECIFICATIONS

RUGGEDNESS

IP Rating	IP67
Drop Rating	MIL-STD-810G, 4ft to Concrete
Shock Rating	MIL-STD-810G, Method 516.6, Procedure I, 40g 11ms
Vibration Rating	MIL-STD-810G, Method 514.6, Procedure I, Category 4
ESD Protection	6kV Touch, 8kV Air

SYSTEM

Processor	Qualcomm SDM660, 64bit Octa-core Qualcomm® Kryo™ 260 CPU, 4 x 2.2GHz and 4 x 1.8GHz Options: (MOQ Required) **RockChip RK3588:** Quad-core ARM Cortex A76 & Quad-core ARM Cortex A55 Processor, NPU 6TOPs@int8 **Intel® Elkhart Lake:** Pentium® Processor N6415, 1.5MB Cache, Up to 3.0GHz
GPU	Qualcomm® Adreno™ 512 GPU
Memory / Storage	4GB LPDDR4 with 64GB eMMC Optional: 6GB LPDDR4 with 128GB eMMC
OS	Android 10

DISPLAY

Screen Size	10.1'' IPS LCD
Resolution	1920 x 1200 (16 : 10)
Brightness	350 nits, Optional: 800 nits (Sunlight Readable)
View Angle	+/- 80°
Contrast Ratio	800 : 1
Touch Screen	Capacitive 10-Point Multi-Touch Configurable to Wet and Glove Touch Ultra Optical Bonding High Strength Hardened Glass

POWER

AC Adapter	Standard US Plug QC3.0 18W Quick Charge Optional: Plug Adapter (US AU UK EU)
Battery	3.85V, 7792mAh

Optional Expansion Module

Expansion Slot Options (Can Support Up to Four Options)	NFC Module: ISO/IEC 14443A/14443B/15693, MIFARE 1K/4K RFID: 13.56M Rail Magnetic Stripe Reader Barcode Reader Smart Card Reader

I/O INTERFACE

Sensors	Gyroscope, Ambient Light Sensor, G-Sensor, Compass
Audio	1 x Built-in Microphone 1 x Internal 8ohm, 1W Speaker
Camera	Front Camera: 5MP Rear Camera: 13MP with Auto Focus, LED
Ports	1 x USB 3.0 Type C, @ 750mA Output 1 x USB 2.0 Type A, @ 500mA 1 x Audio Jack 1 x Expansion Bay 1 x Docking Connector (12V DC Input, 2 x USB 2.0) 1 x Optional SIM / TF Card Slot
Buttons	Power On/Off Button (Hold 10s Will Reset the System) Volume+/- Button 2 x Programmable Buttons

COMMUNICATIONS

Wi-Fi	802.11 a/b/g/n/ac, Support: 2.4GHz & 5GHz
Bluetooth	Bluetooth 5.0
4G LTE	LTE FDD: B2/B4/B5/B7/B12/B13/B17/B25/B26/B66 WCDMA: B2/B4/B5 GSM: 850/1900MHz
GPS	GPS, GLONASS, BeiDou Cold Start No More than 60s

MECHANICAL

Chassis	Double Injection Molding with Magnesium-Alloy Chassis, Rubber Protected
Dimensions	270 x 185 x 16mm
Weight	980g

ENVIRONMENTAL

Temperature:	
- Operation	-10°C to 50°C
- Storage	-20°C to 60°C
Humidity	10% to 95% Non-condensing
RoHS	Compliant
EMC Test	Follows FCC

REGULATORY

Certification	FCC, CE, IC, RoHS, RCM
Tablet Regulatory	Upon Request
Battery Regulatory	UL/UN 38.3

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DIMENSIONS AND SYSTEM LAYOUT

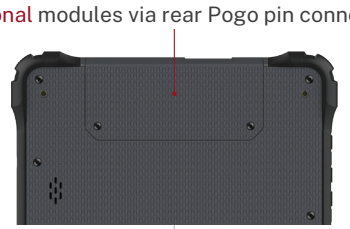
OPTIONAL ACCESSORIES AND APPLICATION MODULES

Hand Strap

Docking Station

Shoulder Strap

VESA Mount



MSR/CAC Card Reader

RFID/ NFC Module

Barcode Reader

MARKET AND APPLICATIONS:

Field Services, Construction, Logistics & Transportation, Retail, Warehousing, Manufacturing, Public Safety, Utilities, Agriculture

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