M101P

10.1" Windows Rugged Tablet PC with Intel® Pentium® N4200

KEY FEATURES

- Intel® Apollo Lake Pentium® N4200 Processor, Windows Rugged Tablet PC
- Low power consumption with fanless design
- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Sunlight readable with anti-glare solution
- Removable battery with hot-swap function for all day productivity
- IP65 water and dust proof with MIL-STD-810G rugged housing

OVERVIEW

Stable Performance with Intel’s CPU

The M101P uses Intel® Pentium® N4200 Processor 1.10 GHz, up to 2.50 GHz with turbo boost technology with a fanless cooling system to provide stable performance and low power consumption. The M101P supports the latest Windows® 10 IoT Enterprise operating system fulfill increasing industrial applications requirements and providing an alternative solution for those between general consumer-grade and extremely rugged solution.

Real-Time Data and Wireless Connectivity

Real-time data access to the right information is crucial for mobile workers. The M101P offers GPS, GLONASS, WLAN, BT, and optional 4G LTE to enable robust communications anytime and anywhere.

Rugged Design in Mobile Form Factor

The M101P rugged tablet is designed to be tough and rugged, withstanding shock, vibration, and drop up to 4 ft. to concrete according to Defence standard MIL-STD-810G for operations in some of the harshest environments. With all-around rubber edges and covered I/O ports, the M101P is dust-tight and waterproof. Ready for use in wet and dusty environments.

Brilliant 10.1” Display with Ultimate Touch Capability

The 10.1” screen of M101P features projected capacitive (PCAP) multi-touch technology for the best user experience and allows switching windows, taking snapshots, zooming in, and rotating objects easily to take the full advantages of the touch interface. Supports Rain, Glove, Stylus modes.

Data Collection Tools for Mobile Workforce

With optional tools for data collection, the M101P offers ultimate productivity for field workers. Options include built-in 1D/2D Barcode Reader, HF RFID Reader, or add-on modules UHF RFID Reader or Smart Card Reader. Built-in 8.0 MP camera on the rear side allows capturing photos, videos, documents instantly, and the front 2.0 MP camera is suitable for self-video recording or video communications.
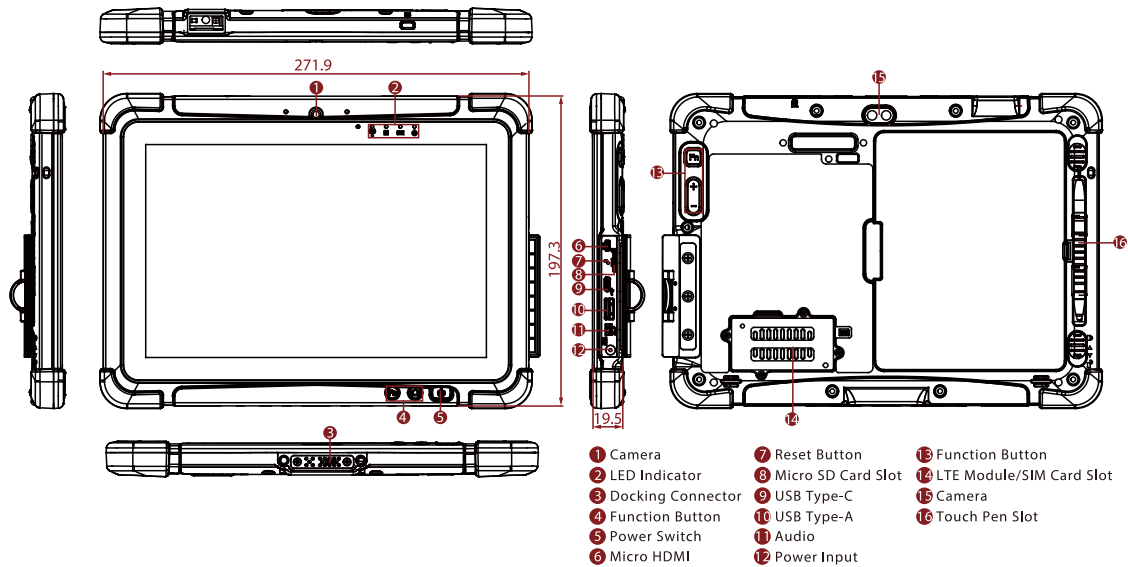
SPECIFICATIONS

Display

Resolution	1920x1200	Size	10.1 inches
Contrast Ratio	800:1	Panel Brightness	800.0 nits

View Angles	85,85,85,85	Type	Projected Capacitive Multi Touch
Viewability	Anti-Glare touch treatment	Bonding	Optical Bonding for Sunlight Viewability

System Specification

Processor	Intel Pentium N4200 1.1GHz (up to 2.5GHz)	Memory	4GB LPDDR4 8GB LPDDR4 (Optional)
Storage	128GB SSD Additional storage available with micro SDXC card slot 256GB SSD (Optional) 512GB SSD (Optional)	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock
Operating System	Windows 10 IoT Enterprise (64 bit)	WLAN	Support
BT	Support	WWAN	4G LTE (Optional)
GNSS	GPS, GLONASS	RFID	HF RFID 13.56 MHz reader (Optional) add-on UHF RFID Reader (Optional)
Sensors	Light sensor/ G-sensor / Gyro	Smart Card Reader	Add-on Smart Card Reader (Optional)

Camera

Front Camera	2MP Front Camera	Rear Camera	8MP Rear Camera with auto-focus and LED light

Mechanical

Dimension	271.9 x 197.3 x 19.5 mm	Weight	1.2 kg (2.65 lbs) with standard battery, 1.4 kg (3.1 lbs) with optional high capacity battery
Cooling System	Fanless design		

IO Ports

USB Port	1 x USB 3.0 (Type A), 1 x USB 3.0 (Type C)	SD Card Slot	1 x Micro SDXC slot
SIM Card Slot	1 x Micro SIM card slot	Video	1 x Micro HDMI (Optional)
Audio	1 x Audio combo 3.5mm audio combo jack (Mic in or Line Out) Dual Digital Mic With Noise Cancellation Dual Speaker	Expansion Port	1 x Expansion connector for USB 2.0/ Full RS232 (Optional)
Indicator	4x LED Indicator for Power, Battery, HDD, RF status	Docking Connector	1 x 19-pin docking connector

Environment

Operating Humidity	10% to 90% RH, non-condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°C (-22°F to 158°F)	Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	IP rating	IP65
Drop	MIL-STD-810G Method 516.6, 4 ft		

Certification

Certification	CE, FCC, UL, PTCRB, Verizon		

Security Function

SOTI MobiControl	SOTI MobiControl Compliance	Kensington Lock	Kensington Lock Support

Control

Button	1 x Power, 1 x Home, 2 x Volume, 2 x Programmable Function Keys		

Power

Battery	Hot-swappable 7.7V, typ. 5900 mAh Li-Polymer Battery (2S1P) 7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P, optional)	Battery Operating Time	Standard. Battery: 9 hours High Capacity Battery: 16 hours
Power Rating	19V DC	Adapter	100-240V, 50-60Hz / 19V DC

Accessory

Accessory	Adapter and Power Cord Capacitive Stylus Standard Battery	Optional Accessory	Desk Dock (Optional) Vehicle Dock (without VGA output) (Optional) Vehicle Cradle (Optional) Battery Charger (Optional) Smart Card Reader (Optional) High Capacity Battery (Optional) Hand Strap (Optional) VESA Mount Kit (Optional) Shoulder Strap (Optional) Carry Bag (Optional) Vehicle Charger (Optional)

Barcode Scanner

Barcode Scanner	1D/2D barcode reader (Optional)		

DIMENSIONS   UNIT:MM

271.9

197.3

19.5

1 Camera	7 Reset Button	13 Function Button
2 LED Indicator	8 Micro SD Card Slot	14 LTE Module/SIM Card Slot
3 Docking Connector	9 USB Type-C	15 Camera
4 Function Button	10 USB Type-A	16 Touch Pen Slot
5 Power Switch	11 Audio	
6 Micro HDMI	12 Power Input	

NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. The USB Type-C connector follows USB 3.0 standard, which does not support Alternate Mode (ALT) or USB Power Delivery (USB-PD).
3. Add-on modules require the expansion port option to be usable.
4. TPM 2.0 available upon request.
5. SOTI is available upon request.
6. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
7. Length measurements do not include protrusions. Weight varies with options and active pen.
8. The drop test with a high-capacity battery must come with a hand strap.
9. Accessories and Integrated Options may vary depending on your configuration.
10. This is a simplified drawing and some components are not marked in detail.
11. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.