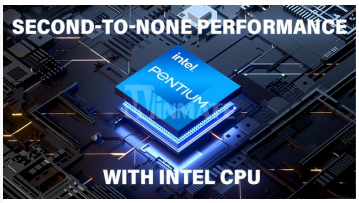
M101PR

10.1" Intel® Pentium® N4200 Rugged Tablets

KEY FEATURES

- Intel® Pentium® N4200 Apollo Lake Processor Rugged Tablets
- 10.1” 1920 x 1200 IPS LED Panel with direct optical bonding
- Optional 1D/2D Barcode Reader and HF RFID for data collection
- Hot-swappable battery design with optional high capacity battery pack
- IP65 waterproof and dustproof
- Rated for extreme temperature use
- Optional expansion port for USB / RS232 connection
- 4-wire resistive touch

OVERVIEW



Stable Performance with Intel’s CPU

The M101PR 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 M101PR 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 M101PR offers GPS, GLONASS, WLAN, BT, and optional 4G LTE to enable robust communications anytime and anywhere.

Rugged Design in Mobile Form Factor

The M101PR 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 with battery for tablet, and covered I/O ports, the M101PR is dust-tight and waterproof. Ready for use in wet and dusty environments.

Data Collection Tools for Mobile Workforce

With optional tools for data collection, the M101PR 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. With A lithium-ion battery in which lithium ions move from the negative electrode through an electrolyte to the positive electrode during discharge and back when charging. Li-ion batteries use an intercalated lithium compound as the material at the positive electrode and typically graphite at the negative electrode.

SPECIFICATIONS

Display			
Resolution	1920x1200	**Size**	10.1 inches
Contrast Ratio	800:1	**Panel Brightness**	800 nits
View Angles	85,85,85,85	**Bonding**	Optical Bonding for Sunlight Viewability
Type	Resistive Touch		
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)	**Security**	Trusted Platform Module (TPM) 2.0 Kensington Lock

	512GB SSD (Optional)		
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 (AC mode), -10°C to 50°C (Battery mode)
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

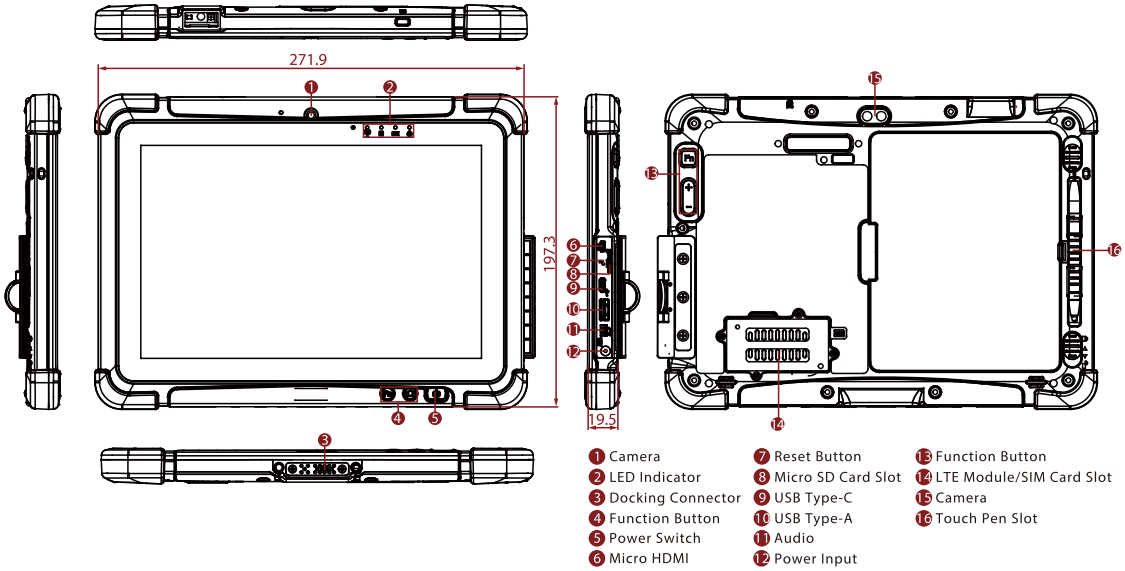
Accessory

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



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. TPM 2.0 available upon request.
4. SOTI is available upon request.
5. Length measurements do not include protrusions. Weight varies with options and active pen.
6. The drop test with a high-capacity battery must come with a hand strap.
7. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
8. Accessories and integrated options may vary depending on your configuration.
9. This is a simplified drawing and some components are not marked in detail.
10. 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.