M101EK

10.1" Windows Rugged Tablet PC with Intel® Celeron® N6211

KEY FEATURES

- Intel® Elkhart Lake Celeron® N6211 Processor
- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- IP65 water and dust proof with MIL-STD-810H rugged housing
- Low power consumption with fanless design
- Removable battery with hot-swap function for all day productivity
- Sunlight readable with antiglare solution
- USB Type-C port supports power delivery 20V In
- Integrated 4G/5G Wireless WWAN (Optional)

CE FC

OVERVIEW

Powerful Computing Performance

With a fanless cooling system powered by an Intel® processor, M101EK offers stable performance for multi-tasks in rigorous conditions. It supports Windows® IoT Enterprise operating system to fulfill increasing industrial applications requirements and provide an alternative solution for those between general consumer-grade and extremely rugged solutions.

On Field Communication Reliability

The M101EK lightweight tablet offers the latest wired and wireless connection options for faster and improved reliability in dense deployments. Bring a level-up communication with no delay.

Compact, Slim, Yet Rugged

M101EK rugged tablet is designed sleek, lightweight, IP65 waterproof sealed, and passed the Defence-standard protection to survive all challenging environmental conditions. M101EK is designed genuinely for mobile workers and keepers who always worry about accidental damage.

Optimal Screen Interactivity in the Field

M101EK has 10.1 inches screen supported with the stylus, glove, and wet-touch modes, also integrated with an IPS 800-nits screen for clear visibility and operation comfort whatever the weather and locations are.
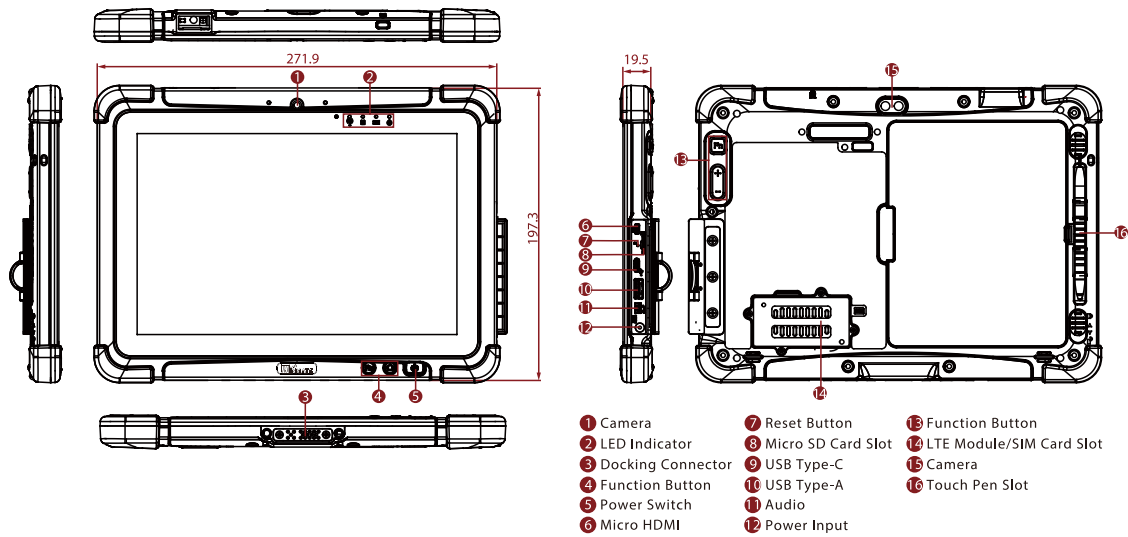
SPECIFICATIONS

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 Celeron N6211 @1.20 GHz (up to 3.00 GHz) Intel Pentium N6415 @1.20 GHz (up to 3.00 GHz) (Optional)	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 LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) (Optional)	**WLAN**	Support
BT	Support	**WWAN**	4G (Optional) 5G (Optional)
GNSS	GPS, GLONASS, Galileo, BeiDou	**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 support Power Delivery 20V In)	**SD Card Slot**	1 x Micro SD Card slot (Support SDXC)
SIM Card Slot	1 x SIM card slot	**Video**	1 x Micro HDMI Output (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 (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

Control

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

Security Function

SOTI MobiControl	SOTI MobiControl Compliance	**Kensington Lock**	Kensington Lock Support

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)

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

DIMENSIONS   UNIT:MM

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).
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 and weight measurements do not include protrusions.
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.