

# M101EKB

8inch Windows Rugged Tablet PC with Intel® Celeron® N6211



## KEY FEATURES

- Intel® Elkhart Lake Celeron® N6211 Processor
- 8" 1280x800 wide viewing angle with PCAP touch
- ISO/IEC 99953 QWERTY Keypad
- USB Type-C port supports power delivery 20V In
- IP65 water and dust proof with MIL-STD-810H rugged housing
- Low power consumption with fanless design
- Removable battery with hotswap function for all day productivity
- Integrated 4G/5G Wireless WWAN (Optional)

## INTRODUCTION

Winmate Vehicle Mount Computer Tablet Series combines rugged durability with advanced functionality for industrial and field applications. Available in 8" and 10.1" screen sizes, PCAP touch screen and a waterproof QWERTY keypad with LED backlight, it ensures seamless data input, even when gloves are worn. Built to withstand tough conditions, it offers IP65-rated protection, MIL-STD-810H compliance, and hot-swappable batteries for all-day productivity. Its fanless design and optional 4G/5G connectivity make it ideal for logistics, transportation, and warehousing environments.

## SPECIFICATIONS

### Display

|                         |                                          |                       |                            |
|-------------------------|------------------------------------------|-----------------------|----------------------------|
| <b>Bonding</b>          | Optical Bonding for Sunlight Viewability | <b>Resolution</b>     | 1280x800                   |
| <b>Size</b>             | 8.0 inches                               | <b>Contrast Ratio</b> | 1500:1                     |
| <b>Panel Brightness</b> | 800.0 nits                               | <b>View Angles</b>    | 80,80,80,80                |
| <b>Type</b>             | Projected Capacitive Multi Touch         | <b>Viewability</b>    | Anti-Glare touch treatment |
| <b>Touch Mode</b>       | Support Hand / Gloves and Rain Mode      |                       |                            |

### System Specification

|                         |                                                                                                                     |                          |                                                                          |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------|
| <b>Processor</b>        | Intel Celeron N6211 @1.20 GHz (up to 3.00 GHz)<br>Intel Pentium N6415 @1.20 GHz (up to 3.00 GHz) (Optional)         | <b>Memory</b>            | 4GB LPDDR4<br>8GB LPDDR4 (Optional)                                      |
| <b>Storage</b>          | 128GB SSD<br>Additional storage available with micro SDXC card slot<br>256GB SSD (Optional)<br>512GB SSD (Optional) | <b>Security</b>          | Trusted Platform Module (TPM) 2.0<br>Kensington Lock                     |
| <b>Operating System</b> | Windows 10 IoT Enterprise LTSC (64 bit)<br>Windows 11 IoT Enterprise LTSC (64 bit) (Optional)                       | <b>WLAN</b>              | Support                                                                  |
| <b>BT</b>               | Support                                                                                                             | <b>WWAN</b>              | 4G (Optional)<br>5G (Optional)                                           |
| <b>GNSS</b>             | GPS, GLONASS, Galileo, BeiDou                                                                                       | <b>RFID</b>              | HF RFID 13.56 MHz reader (Optional)<br>add-on UHF RFID Reader (Optional) |
| <b>Sensors</b>          | Light sensor/ G-sensor / Gyro                                                                                       | <b>Smart Card Reader</b> | Add-on Smart Card Reader (Optional)                                      |

### Environment

|                            |                                       |                              |                                       |
|----------------------------|---------------------------------------|------------------------------|---------------------------------------|
| <b>Operating Humidity</b>  | 10% to 90% RH, non-condensing         | <b>Operating Temperature</b> | -20°C to 60°C                         |
| <b>Storage Temperature</b> | -30°C to 70°C (-22°F to 158°F)        | <b>Shock</b>                 | MIL-STD-810H Method 516.8 Procedure I |
| <b>Vibration</b>           | MIL-STD-810H Method 514.8 Procedure I | <b>IP rating</b>             | IP65                                  |
| <b>Drop</b>                | MIL-STD-810H Method 516.8, 4 ft       |                              |                                       |

## Certification

|                      |         |
|----------------------|---------|
| <b>Certification</b> | CE, FCC |
|----------------------|---------|

## Mechanical

|                       |                       |               |                 |
|-----------------------|-----------------------|---------------|-----------------|
| <b>Dimension</b>      | 271.8 x 198.2 x 22 mm | <b>Weight</b> | 1.35 kg (3 lbs) |
| <b>Cooling System</b> | Fanless Design        |               |                 |

## Accessory

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

## IO Ports

|                      |                                                                                                                         |                          |                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------|
| <b>USB Port</b>      | 1 x USB 3.0 (Type A), 1 x USB 3.0 (Type-C support Power Delivery 20W In)                                                | <b>SD Card Slot</b>      | 1 x Micro SD Card slot (Support SDXC) |
| <b>SIM Card Slot</b> | 1 x SIM card slot                                                                                                       | <b>Video</b>             | 1 x Micro HDMI Output (Optional)      |
| <b>Audio</b>         | 1 x Audio combo 3.5mm audio combo jack (Mic in or Line Out)<br>Dual Digital Mic With Noise Cancellation<br>Dual Speaker | <b>Expansion Port</b>    | 1 x Expansion connector (Optional)    |
| <b>Indicator</b>     | 4x LED Indicator for Power, Battery, HDD, RF status                                                                     | <b>Docking Connector</b> | 1 x 19-pin docking connector          |

## Power

|                     |                                                                                                                         |                               |                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------|
| <b>Battery</b>      | Hot-swappable 7.7V, typ. 5900 mAh Li-Polymer Battery (2S1P)<br>7.4V, typ. 10280 mAh Li-Polymer Battery (2S2P, optional) | <b>Battery Operating Time</b> | Standard. Battery: 8 hours<br>High Capacity Battery: 13 hours |
| <b>Power Rating</b> | 19V DC                                                                                                                  | <b>Adapter</b>                | 100-240V, 50-60Hz / 19V DC                                    |

## Camera

|                    |                                               |
|--------------------|-----------------------------------------------|
| <b>Rear Camera</b> | 8MP Rear Camera with auto-focus and LED light |
|--------------------|-----------------------------------------------|

## Barcode Scanner

|                        |                                 |
|------------------------|---------------------------------|
| <b>Barcode Scanner</b> | 1D/2D Barcode Reader (Optional) |
|------------------------|---------------------------------|

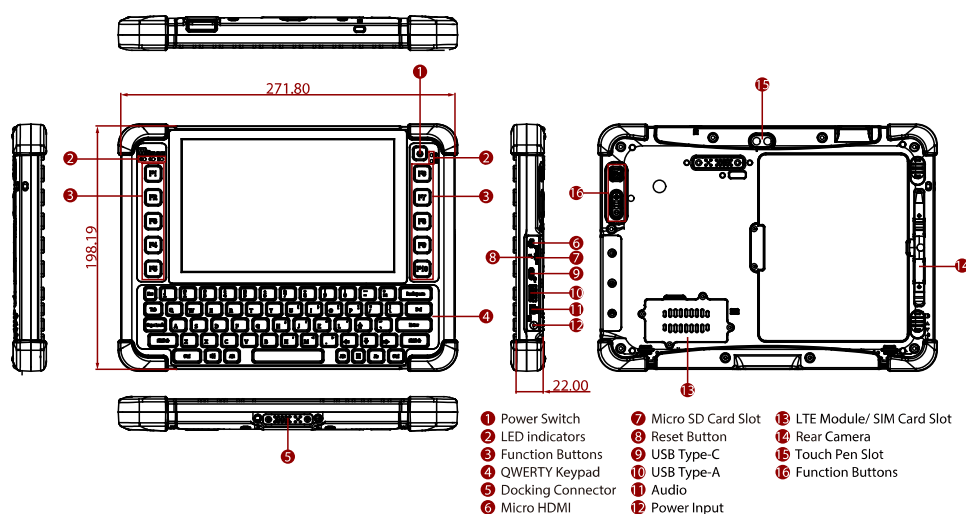
## Control

|               |                                                                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Button</b> | Physical Buttons:<br>ISO/IEC 9995-3 QWERTY Keypad, IP65 water and dust proof, with LED backlight (keypad dimensions : min. 10x10mm)<br>1 x Power, 10 x Function Keys (programmable by Hottab) |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Security Function

|                         |                             |                        |                 |
|-------------------------|-----------------------------|------------------------|-----------------|
| <b>SOTI MobiControl</b> | SOTI MobiControl Compliance | <b>Kensington Lock</b> | Kensington Lock |
|-------------------------|-----------------------------|------------------------|-----------------|

## DIMENSIONS UNIT:MM



## NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. 1D/2D Barcode Reader and HF RFID Reader are mutually exclusive options.
3. Length measurements do not include protrusions. Weight varies with options.
4. The drop test with a high-capacity battery must come with a hand strap.
5. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
6. Accessories may vary depending on your configuration.
7. This is a simplified drawing and some components are not marked in detail.
8. 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.