

# M101RK 10.1-inch Rugged Tablet PC

ARM-based

A Rugged Tablet that Can Survive Any Environment and Get Real Work Done

M101RK is a rugged tablet PC with a robust set of features designed to withstand industrial use while providing high tech solutions that increase productivity, improve safety, and reduce operational costs. The processing power comes from a Dual-core Cortex-A72 + Quad-core Cortex-A53 processor for high performance. The tablet features a brilliant in-plane switching with direct optical bonding projected capacitive touch screen, which is sunlight readable and offers a 1920 x 1200 pixel resolution. Weighing at just 2.2 pounds (990 grams), the M101RK delivers lightweight mobility in a rugged tablet.



## Highlights

- High performance Dual-core Cortex-A72 up to 2.0GHz  
+ Quad-core Cortex-A53 up to 1.5GHz
- 10.1" 1920x1200 LED Panel with P-Cap Touch
- Android 7.1
- IP65 water and dust proof
- Dual Camera Design: 8MP Main camera with LED flash / 2MP Webcam
- MIL-STD-810G Shock / Drop / Vibration Compliant
- Optional Barcode Reader and NFC Reader

| Order Information |         |                      |            |
|-------------------|---------|----------------------|------------|
|                   | LTE     | 1D/2D Barcode Reader | NFC Reader |
| M101RK            | N/A     | N/A                  | Optional   |
| M101RK-BM         | N/A     | Default              | Optional   |
| M101RK-4E         | Default | N/A                  | Optional   |
| M101RK-4EBM       | Default | Default              | Optional   |

## NFC Tag Support

| Support Card Type (13.56 MHz) |  |
|-------------------------------|--|
| NFC Forum Platform            | Type 1, Type 2, Type 3, Type 4   |
| ISO 15693                     | TI HF-I Plus, TI HF-I Pro, NXP-Code SLI  |
| ISO 14443-A                   | NXP Mifare_One(S50_4byte),<br>NXP Mifare_One(S50_7byte),<br>NXP Mifare_One(S70_4byte),<br>NXP Mifare_UltraLight,<br>NXP Mifare_UltraLight C,<br>NXP Mifare_DesFire_EV1,<br>NXP Mifare_Plus S/X |
| ISO 14443-B                   | Infineon JTOP  |
| ISO 18092(R/W)                | SONY Felica Lite s,<br>SONY Felica Lite  |

# M101RK 10.1-inch Rugged Tablet PC

ARM-based

A Rugged Tablet that Can Survive Any Environment and Get Real Work Done

## Display Specification

|                          |   |
|--------------------------|---|
| Size                     | 10.1-inch IPS display with LED Backlight  |
| Resolution               | 1920 x 1200   |
| Brightness               | 800 nit With Optical Bonding for Sunlight Readability   |
| Touch                    | Multi-Touch Projected Capacitive  |
| Contrast Ratio           | 800:1   |
| Viewing Angle Technology | 85/85/85/85 <ul style="list-style-type: none"> <li>• Anti reflective and anti-glare technology (Optional)</li> <li>• Automatic screen rotation</li> </ul> |
| Sensors                  | Light Sensor / G-Sensor / Gyroscope / E-Compass   |

## System Specification

|                  |  |
|------------------|--|
| Processor        | Dual-core Cortex-A72 up to 2.0GHz<br>+ Quad-core Cortex-A53 up to 1.5GHz |
| System Memory    | 2GB <sup>1</sup>   |
| Storage          | 16GB eMMC  |
| Operating System | Android 7.1  |

## Wireless Communication

|           |                        |
|-----------|------------------------|
| WLAN      | 802.11 a/b/g/n/ac      |
| Bluetooth | Bluetooth 4.2          |
| GPS       | Supports GPS           |
| WWAN      | Optional 4G/ LTE or 3G |

## Interface

|                   |  |
|-------------------|--|
| Docking Connector | 1 x 19-pin docking connector                   |
| HDMI              | 1 x Micro HDMI                                 |
| USB               | 1 x USB 3.0 Type C (OTG)<br>1 x USB 3.0 Type A |
| Power Input       | 1 x Power Jack                                 |
| Micro SD          | 1 x Micro SD Slot                              |
| Audio Connector   | 1 x Audio Combo Conn. (Mic in / Line Out)      |

## Keyboard and Input

|                |  |
|----------------|--|
| Touch          | • P-Cap multi-touch  |
| Button         | 1 x Power, 1 x Home, 1 x Back,<br>1 x Menu, 1 x Volume Up, 1 x Volume Down |
| LED Indicators | 1 x Status Indicator   |

## Audio

|            |                         |
|------------|-------------------------|
| Microphone | 1 x Built-in Mic        |
| Speaker    | 2 x Built-in 1W Speaker |

## Cameras

|             |                                      |
|-------------|--------------------------------------|
| Web Camera  | 2 MP Camera with built-in microphone |
| Rear Camera | 8MP Auto-Focus Camera with LED Flash |

## Data Capture

|         |                               |
|---------|-------------------------------|
| Barcode | Optional 1D/2D Barcode Reader |
| NFC     | Optional NFC Reader           |

## Security Function

|                   |                 |
|-------------------|-----------------|
| Security Function | Kensington Lock |
|-------------------|-----------------|

## Mechanical and Environment

|                       |   |
|-----------------------|---|
| Dimension (W x L x H) | 271.8 x 197.2 x 19 mm (10.7 x 7.76 x 0.75 inches) <sup>2</sup>                      |
| Weight                | 990 grams (2.18 lbs)  |
| Operating Temperature | AC Mode -20°C to 60°C (-4°F to 140°F)<br>Battery mode -10°C to 50°C (14°F to 122°F) |
| Storage Temperature   | -20°C to 60°C (-4°F to 140°F)   |
| Humidity              | 10% to 90% RH, non-condensing   |
| IP Proof              | IP65  |
| Shock                 | MIL-STD-810G Method 516.6 Procedure I   |
| Vibration             | MIL-STD-810G Method 514.6 Procedure I   |
| Drop                  | MIL-STD-810G Method 516.6 Procedure I,<br>4 ft to concrete <sup>3</sup>             |

## Power Management

|                        |   |
|------------------------|---|
| Power Input            | 19V DC in                                     |
| Battery                | 7.4V, typ. 5140 mAh Li-Polymer Battery (2S1P) |
| Battery Operating Time | Standard Battery: 8 hours <sup>4</sup>        |
| Adapter                | 110-240 AC to 19V DC out Power Adapter        |

## Accessories

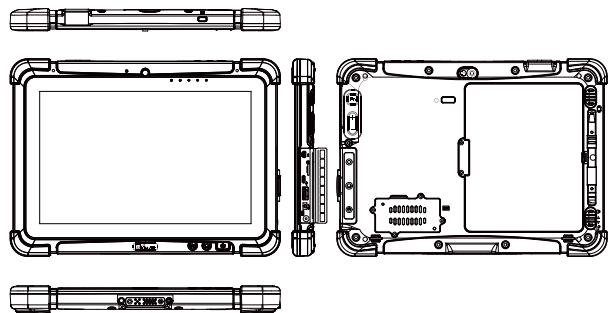
### Standard Accessories

|                        |              |
|------------------------|--------------|
| Adapter and Power Cord | 922D065W19V1 |
| Standard Battery       | 98K000A0003T |
| Capacitive Stylus      | 9B000000001D |

### Optional Accessories <sup>5</sup>

|                                   |              |
|-----------------------------------|--------------|
| Desk Dock                         | 98K000A00052 |
| Vehicle Dock (without VGA output) | 98K000A00051 |
| Vehicle Cradle                    | 98TA10Z00005 |
| Battery Charger                   | 98KT00A0000F |
| Hand Strap                        | 98K000A0003J |
| VESA Mount Kit                    | 98KT00A0001H |
| Shoulder Strap                    | 98K000A0003Q |
| Carry Bag                         | 9B000000003J |
| Vehicle Charger                   | 9226065W19V0 |

## Drawing <sup>6</sup>



Caution

Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example)  
Do not expose bare skin to this product when handling this unit in extreme hot or cold environments

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

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660