# M101M8-4E, 10.1-inch Rugged Tablet PC
## ARM-based

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

M101M8 is a rugged tablet PC with 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 ARM Cortex A53 Octa Core processor with Android 7.0 OS. The tablet features a brilliant, in-plane switching with direct optical bonding, projected capacitive touch screen, which is outdoor viewable and offers 1280 x 800 pixel resolution. Weighing at just 2.18 pounds (approx. 990 grams) the M101M8 delivers lightweight mobility in a rugged tablet.



## Highlights

- ARM Cortex A53 Octa Core Processor
- 10.1" 1280 x 800 LED Panel with direct optical bonding
- Android 7.0 OS
- NFC Reader
- IP65 waterproof and dustproof
- Rated for extreme temperature use
- Optional 2D Barcode Reader

| Order Information | | | |
|---|---|---|---|
| | 4G | 2D Barcode Reader | Hotswap Battery |
| M101M8-4E | Default | N/A | N/A |
| M101M8-4EH | Default | N/A | Default |
| M101M8-4EBM | Default | Default | N/A |
| M101M8-4EBMH | Default | Default | Default |

**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, NXPI-Code SLI |
| ISO 14443-A | NXP Mifare_One(S50_4byte), NXP Mifare_One(S50_7byte), NXP Mifare_One(S70_4byte), NXP Mifare_UltraLight, NXP Mifare_UltraLight C NXP Mifare DesFire_EV1 NXP Mifare_Plus S/X |
| ISO 14443-B | Ifineon JTOP |
| ISO 18092(R/W) | SONY Felica Lite s, SONY Felica Lite |

**WINMATE**

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### Display Specification

| | |
|---|---|
| Size | 10.1-inch display with LED Backlight |
| Resolution | 1280 x 800 WUXGA |
| Brightness | 400 nit |
| | With direct optical bonding for sunlight readable |
| Touch | Multi-touch projected capacitive |
| Contrast Ratio | 1000:1 |
| Viewing Angle | 85/85/85/85 |
| Technology | • Anti-reflective and anti-glare technology (Optional) |
| | • Ambient light sensor, e-compass, gyro, acceleration sensors |
| | • Automatic screen rotation |

### System Specification

| | |
|---|---|
| Processor | ARM Cortex A53 Octa Core 1.3 GHz |
| System Memory | 2GB LPDDR3 [1] |
| Storage | 16GB eMMC |
| | Additional storage available with optional Storage Card: SDHC (up to 32 GB) |
| Operating System | Android 7.0 |

### Wireless Communication

| | |
|---|---|
| WLAN | 802.11 a/b/g/n |
| Bluetooth | Bluetooth 4.1 |
| GPS | Built-in |
| WWAN | GSM/GPRS/EDGE, b2/b3/b5/b8 |
| | WCDMA/HSDAP/HSPUA, b1/b2/b4/b5/b8 |
| | FDD-LTE / TDD-LTE, b1/b3/b4/b7/b8/b20/b38/b39/b40/b41 |

### Interface

| | |
|---|---|
| Docking Connector | 1 x 19-pin docking connector |
| USB | 1 x Micro USB2.0 OTG |
| Power Input | 1 x Power Jack |
| Micro SD | 1 x Micro SD Slot |
| Audio Connector | 1 x Audio Combo connector (Mic in or Line Out) |

### Keyboard and Input

| | |
|---|---|
| Touch | • 10-point multi touch, support Hand / Gloves and Rain Mode |
| Button | • On-screen QWERTY keyboard |
| | Button 1 x power, 1 x home, 1 x back, 1 x menu, 2 x volume key |
| LED Indicators | Status |

### Audio

| | |
|---|---|
| Microphone | 1 x built-in Mic |
| Speaker | 2 x 1 watt speaker |

### Cameras

| | |
|---|---|
| Web Camera | 2MP webcam |
| Rear Camera | 8MP rear camera with autofocus and LED light |

### Data Capture

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

### Security Function

| | |
|---|---|
| Security | Kensington lock |
| Mobile Device Mgmt. | SOTI Mobicontrol compatible [2] |

### 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) [3] |
| Weight | 1.0 kg |
| Operating Temperature | -10°C to 50°C (14°F to 122°F) (Battery mode) |
| | -20°C to 60°C (4°F to 158°F) (AC mode) |
| Storage Temperature | -20°C to 60°C (4°F to 158°F) |
| Humidity | 30% to 90% RH, non-condensing |
| IP Proof | IP65 certified, Dustproof and waterproof |
| 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, 4 ft to concrete |
| Salt Fog | MIL-STD-810G Method 509.5 Part II |

### Power Management

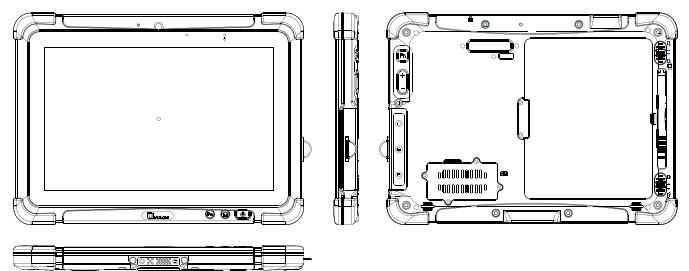| | |
|---|---|
| Power Input | 12-19V DC |
| Battery | 7.4V, typ. 5140 mAh Li-Polymer Battery (2S1P) |
| Battery Operating Time | Std. Battery: 10 hours [4] |
| Adapter | 100-240V/ 12V DC 3A |

### Accessories

#### Standard Accessories [5]

| | |
|---|---|
| Adapter and Power Cord | 922D036W12V6 |
| Standard Battery | 98K000A0003R |
| Capacitive Stylus | 9B000000001D |

#### Optional Accessories [5]

| | |
|---|---|
| Desk Dock | 98K000A00052 |
| Vehicle Dock (without VGA output) | 98K000A00051 |
| Vehicle Cradle | 98TA10Z00005 |
| Battery Charger | 98KT00A0000F |
| Hand Strap | 98K000A0003J |
| VESA Mount Kit | 98K000A0003O |
| Shoulder Strap | 98K000A0003Q |
| Carry Bag | 9B000000003J |
| Vehicle Charger | 9226065W19V0 |
| Mobile Printer MX20 | 9B000000007B |
| Mobile Printer MX30 | 9B000000007A |

#### Drawing [6]



**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. SOTI is available upon request.
3. Length measurements do not include protrusions. Weight varies with options.
4. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
5. All the accessories are compliant with M101M4 series.
6. This is a simplified drawing and some components are not marked in detail.