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

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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	Optional 4G/ LTE or 3G

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

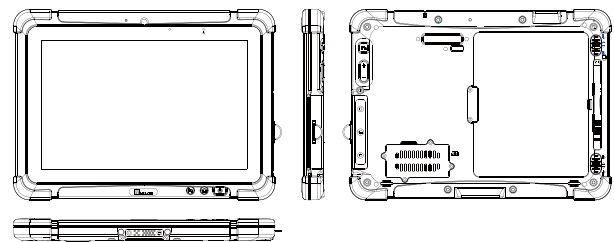|	
Power Input	12-19V DC
Battery	7.4V, typ. 5140 mAh Li-Polymer Battery (2S1P)
Battery Operating Time	Std. Battery: 10 hours [4]
Adapter	100-240V/ 12V DC 3A

Accessories

Standard Accessories [5]

Adapter and Power Cord	922D036W12V6
Standard Battery (Black)	98K000A0003T
Standard Battery (Gray)	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	98KT00A0001H
Shoulder Strap	98K000A0003Q
Carry Bag	9B000000003J
Vehicle Charger	9226065W19V0

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.

Release Date: 29-Apr-2020 V2.2

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.

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