



Industrial Tablet Winmate M101BL - ST

Category:	UMPC - Ruggedized
Manufacturer:	Winmate
Operating System:	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded Systems
Display:	10.1" (1280x800 - WUXGA) IPS LED MultiTouch
Brightness:	300nits
Processor:	Intel BayTrail-M Quad-Core 1.8GHz
Memory:	4GB SODIMM DDR3L-1600 1.35V
Hard Drive:	64 GB mSATA MLC SSD
Flash Memory:	Tak
Touch screen:	Yes
Durability:	IP65
Drop:	MIL-STD-810G Method 516.6 - 4ft./1.2m
Shock:	MIL-STD-810G Method 516.6 Procedure I
Vibration:	MIL-STD-810G Method 514.6 Procedure I

Temperature:	Operating (AC): -20°C -- +60°COperating (Battery): -10°C -- +50°C
Humidity:	10% - 90% non-condensation
1D barcode scanner (reader):	-----
2D barcode scanner (reader):	-----
RFID scanner (reader):	-----
Other:	Power Adapter Instruction Drivers Stylus
Battery:	Li-Polymer 7.4V, 5140 mAhLi-Polymer 7.4V, 10280 mAh (optional)
Working time on battery:	8 Hours* - Battery Mark Ver. 4.0.1With BatteryMon Test Program under Power Saving Mode16 hours(with bigger battery)
Fast battery replacement ability:	Nie
HotSwap battery:	-----
LAN:	30-pin Combo Conn (LAN or RS232)
WLAN:	802.11 a/b/g/n
Bluetooth:	Bluetooth 4.0 + Class I
WAN:	-----
GPS:	u-Blox Neo-6Q
Camera:	Front: 2MPRear: 5MP + Auto-focus + LED Flash
In/Out:	Micro HDMI(option), LAN/RS232 (30pin), SD Card Reader, USB 3.0, Audio, DC In
Optional accessories:	30pin-LAN : 30pin-RS232 : Battery 10600 mAh Li-Polymer : Hand Strap : Micro-USB Cable : Vehicle Charger : Docking Station : Vehicle Docking : VESA Mount kit: Shoulder strap
Docking station connector:	-----
VESA standard – holders and mounts support:	Yes
COM port:	30-pin Combo Conn (LAN or RS232)
Magnetic card reader (MSR):	-----
Microchip card reader:	-----
Contrast:	800:1
Graphics card:	-----

Chipset:	-----
BIOS:	AMI System BIOS
Casing material:	-----
Flash Card Reader:	microSD (max. 32GB)
CD/DVD:	-----
Audio:	1x - Line out / MIC In 2x - 1W speakers
Keyboard:	on-Screen Function keys
Additional Navigation Devices :	-----
Color:	-----
Swivel Hinge:	-----
VGA out:	-----
TV Out:	-----
TV Tuner:	-----
Security:	IP65 MIL-STD-810G
Waterproof:	IP65
Sand and dust:	IP65
Size:	271.8 x 197.2 x 19 mm - 1.2kg/1.4(with bigger battery)
Fanless casing:	Yes

Product from the Archive - production finished



Winmate has had an impressive history of making successful rugged and embedded products, and just recently we started concentrating more on Industrial grade Rugged Tablet PC market, as we seeing a trend of continual growth in this market. That is why Winmate is introducing the new **M101BL - ST**, a 10.1" rugged tablet PC with superior quad-core processing performance to further grow our lineup of rugged tablets to fit the needs of every industrial application.



M101BL - ST is offered with Intel BayTrail-M Quad-Core 1.8GHz processor to provide high performance and low power consumption, providing extended battery life. It supports with **Windows 10/8.1/7** operating system to fulfill increasing requirement in industrial applications and provides an alternative solution for those between general consumer and extremely rugged application.

Processor	Intel BayTrail-M Quad-Core 1.8GHz
Display	10.1" (1280x800 - WUXGA)
Display Type	IPS LED (SUNLIGHT READABLE) MultiTouch
LEDs	Power Battery HDD RF
Brightness	300nits

Contrast	800:1
RAM	4GB SODIMM DDR3L-1600 1.35V
ROM	64 GB mSATA MLC SSD

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Keyboard	On-Screen : Function keys
Buttons	1x - Power 1x - Home 2x -Volume 2x - User-defineable Function Keys
System (factory)	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Emedded Systems
Modules	802.11 a/b/g/n Bluetooth 4.0 Class 1 3G (optional) 4G (optional)
Dimensions	272 × 197 × 19 - 1.2 kg / 1.4 kg (with bigger battery)
Resistance	IP65
Readers (optional)	RFID HF 13.56 Mhz or 1D/2D Barcode Scanner (both readers can not be placed in the same time)
Sensors (factory)	Light , G Sensor, Gyrometer, E-Compass
Certificates	CE, FCC, IC, UL 60950, EN60601
Warranty	12 months



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Barcode Scanner

Barcode Reader allows you to read, decode and transfer stored data in barcode to your computer. Thanks to dynamic scanning method and the large range of reading, data collector is capable to carefully collecting data, which helps to increase the rate and efficiency of work. Simplified installation procedure, convenient and intuitive design allow to start scanner work very easy and quickly.

Model	Intermec EA30 (1D/2D Imager)
Light Source	Highly visible white LED (100lm/W)
Aimer	650 nm laser, Class 2
Scan Rate	1D Mode - 120fps 2D Mode - up to 60fps



1D	EAN/UPC, GS1 Databar, RSS, Code 39, Code 128, UCC/ EAN 128, ISBN, ISBT, Interleaved/Matrix/ Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, Postal codes
2D	Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode, QR, Aztec, GS1 composite codes

RFID

RFID (Radio-Frequency Identification) is a technology used to identify objects and control flow of products. The Read information from special tags that are attached to the objects followed by radio. Depending on the type of tag the amount of stored information is changing as well as the maximum distance at which data can be read.

RFID HF	13.56 Mhz
Standards	ISO15693 (1-5m)
	ISO14443A (MIFARE)
	ISO18092 (NFC)



FC standards cover communications protocols and data exchange formats, and are based on existing radio-frequency identification (RFID) standards including ISO/IEC 14443 and FeliCa.

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Applicable standards

In terms of device ruggedness, the **M101BL - ST** can withstand a 4-foot drop, and with IP65 sealing, where the first digit "6" means the device is dustproof and the second digit "5" means that the device has the ability to handle low pressure water jets from all directions. The tablet can operate in temperature range of -10° to 50°C, optimized for most industrial deployments. M101BL - ST is a sharp looking, sturdy and powerful device that can hold up well against use in harsh environment with its industrial grade rugged design.

Operating (AC)	-20°C -- +60°C
Operating (Battery)	-10°C -- +50°C
Operating humidity	10% - 90% non-condensation
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 - 1.2m to concrete
Dust	IP6x (dust)
Water	IPx5 (water)

Computer made in accordance with the requirements of the U.S. military standard MIL-STD-810G. He keeps working after falling onto concrete from a height of 1.2 meters, is not afraid of vibration, shock, water, mud and temperature changes. Certification C/D2 means that during operation of the tablet will not occur and the spark generating heat sufficient to ignite the vapors contained in the atmosphere of acetylene, hydrogen and other gases (important when operating in the petroleum industry). Operating temperature range from minus 20 to plus 60 degrees Celsius.

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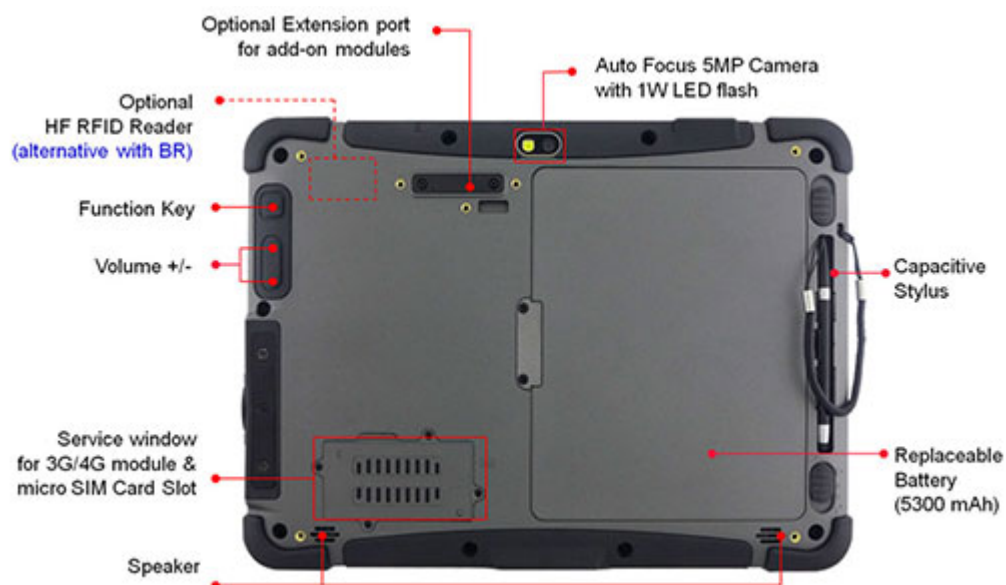
Real-time data access to the right information is very important to mobile users. M101BL - ST offers optional 3G/4G(optional), GPS, WiFi 802.11 a/b/g/n, Bluetooth 4.0 which enable users to get connect in the way that best suits their needs. With built-in 5.0 Mega Pixels camera on rear side, users can capture photos, videos, documents instantly, or utilize the front 2.0 Mega Pixel camera for application such as user self video recording, or video communication.

WIFI	802.11 a/b/g/n
GPS	U-Blox Neo-6Q
Bluetooth	Bluetooth 4.0 + Class I
3G(optional)	3G: HSPA+,GSM/GPRS/EDGE
4G(optional)	4G: (LTE,HSPA+,GSM/GPRS/EDGE,EV-DO Rev A, 1xRTT)





Winmate describes the M101BL - ST tablet as "rugged" and with its corner protection it certainly looks much tougher than all those Barbie-thin and fragile consumer tablets. Given Winmate's experience in rugged mobile computing, we assume those are just partial specs.



Dimensions

271.8 x 197.2 x 19 mm

Weights

1.2kg/1.4kg(with bigger battery)

Bottom side



Docking Connector

Upper side



Kensington Lock Slot

Optional 2D Barcode Reader
(alternative with RFID Reader)

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