



i-Mobile TPC-2a Plus

<b>Category:</b>	UMPC - Ruggedized
<b>Operating System:</b>	None (option)
<b>Display:</b>	8.9" 1024x600 (interpolation 1024x768)
<b>Brightness:</b>	220nit
<b>Processor:</b>	Intel® Atom™ N270 1.6GHZ
<b>Memory:</b>	1GB DDRII (max.2GB)
<b>Hard Drive:</b>	160GB 2.5" SATA HDD
<b>Touch screen:</b>	Yes
<b>Durability:</b>	MIL-810D / Semi Rugged
<b>Drop:</b>	0.90m
<b>Shock:</b>	IEC 60068-2-35
<b>Vibration:</b>	IEC 60068-2-27
<b>Temperature:</b>	IEC 60068-2-1, -25°C / IEC 60068-2-2, 100°C / IEC 60068-2-30, -25°C - 100°C
<b>Humidity:</b>	10 - 80%
<b>1D barcode scanner (reader):</b>	No
<b>2D barcode scanner (reader):</b>	No

<b>RFID scanner (reader):</b>	No
<b>Other:</b>	-----
<b>Battery:</b>	Li-Ion 5200mAh
<b>Working time on battery:</b>	8h
<b>Fast battery replacement ability:</b>	Yes
<b>HotSwap battery:</b>	No
<b>LAN:</b>	Yes 10/100/1000 LAN
<b>WLAN:</b>	Yes WiFi b/g/n
<b>Bluetooth:</b>	Yes
<b>WAN:</b>	Yes (Phone Function)
<b>GPS:</b>	No (Option)
<b>Camera:</b>	No (option)
<b>In/Out:</b>	3xUSB 2.0, PCI Express 34, Audio (in, out), 1xVGA, 1xLAN,
<b>Optional accessories:</b>	-----
<b>Docking station connector:</b>	No
<b>VESA standard – holders and mounts support:</b>	No
<b>COM port:</b>	No
<b>Magnetic card reader (MSR):</b>	No
<b>Microchip card reader:</b>	No
<b>Contrast:</b>	-----
<b>Graphics card:</b>	Integrated
<b>Chipset:</b>	Intel® 945GSE(South bridge)
<b>BIOS:</b>	AWARD
<b>Casing material:</b>	plastic
<b>Flash Card Reader:</b>	None
<b>CD/DVD:</b>	No (optional USB
<b>Audio:</b>	2 Speakers stereo surround
<b>Keyboard:</b>	No

<b>Additional Navigation Devices :</b>	No
<b>Color:</b>	Black
<b>Swivel Hinge:</b>	No
<b>VGA out:</b>	Yes
<b>TV Out:</b>	No
<b>TV Tuner:</b>	No
<b>Security:</b>	Gum case
<b>Waterproof:</b>	IP 51
<b>Sand and dust:</b>	IP 51
<b>Size:</b>	240 x 190 x 26 mm / 1.1 Kg
<b>Fanless casing:</b>	No

**Product from the Archive - production finished**



**TPC-2A PLUS**

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Description

Functionality

Use

Resistance standard

Certificate



**i-Mobile** Technology Corporation, founded in 2003 in Taipei, develops and manufactures industrial Tablet PCs. i-Mobile provides robust tablet PCs for vertical markets including field service, health care, diagnostics, transportation, retails, hospitality, and etc. i-Mobile is headquartered in Taipei Neihu Technology Park with abundant high technology resource; this helps for development efficiency and issues resolving.

Research & Development

i-Mobile has a complete outstanding research & develop team to design the industrial tablet PCs. i-Mobile offers wide range of service for configuration modification of the industrial Tablet PCs. This customizes service increases compatibility of embedded computing.

i-Mobile treasures the customers and suppliers as long term partners. In order to achieve the stable providing for vertical market projects, i-Mobile offers long time product life cycle.

Description



The value of **MIL-STD-810D** protection ruggedized tablet for industrial applications and harsh environments. Intel Ultra low power Atom processor with daylight readable LED display built-in Bluetooth, WiFi, 3.5G with phone and GPS (option) to let your daily works without compromise!

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**TPC-2a Plus** is supported Intel **Atom N270** processor, thanks to what it is usually energy-saving, keeping near this large efficiency of work, what proof system is Windows XP / Vista / 7 which be dedicated for this device.



**TPC-2a Plus semi rugged tablet** from i-Mobile is a great reason to throw out your old computer. Is known as the mobile replacement because it has everything your desktop PC has, plus more. With its gorgeous 8.9-inch LED 220nits (Sunlight readable, 1024x600) screen display, you no longer have to squint to see things on the screen.



umpc, tablet, rugged, semi rugged, full rugged, tablet przemysłowy, tablet wojskowy, komputery medyczne, UMPC,

In standard:

- 10/100/1000Mbps Base-T Ethernet LAN and Bluetooth, WiFi 802.11b/g/n, moduł 3.5G

- UMTS/HSUPA:  
2100, 1900, 850MHz

- GSM/GPRS/EDGE:  
850/900/1800/1900MHz

- HSPA/WCDMA with phone

Downlink: 7.2Mbps

Uplink: 2Mbps



Optional 20-channel GPS module.



- 1. VGA
- 2. AC adapter
- 3. 3 x USB 2.0
- 4. Audio



- 5. PCI Express 34
- 6. LAN (RJ45)
- 7. LED indicators

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When is rugged too rugged? i-Mobile realized that a majority of semi-rugged tablets were rarely being taken out of vehicles—and customers were paying for protection they didn't need. That's why the company has a "vehicle-rugged tablet," the TPC-2a Plus. This tablet can withstand the rigors of being in a car, including vibration and the occasional coffee spill.

**Operating temperature: 0°C~35°C**

**Operating relative humidity: 10%~80%**

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The following is a top-level introduction to US Military standard MIL-STD-810, used to define the testing methodology for, and results required for acceptance of, rugged equipment.

MIL-STD-810 is a series of performance and manufacturing guidelines set by the US Department of Defense for military and commercial equipment and applications. These guidelines specify allowable parts and environmental condition ranges in which a device must be able to operate to meet compliance.

MIL-STD-810 is a generally accepted standard of ruggedisation testing and compliance for mobile computers and equipment.

The MIL-STD-810 test method is used to generate confidence in the environmental worthiness and overall durability of 'material system' design. The testing process follows guidelines, which include program documentation, program roles, test standards, and laboratory test method guidelines for all categories.

The laboratory test methods are broken down into 24 categories and thereafter procedures (specific tests or levels) appropriate to the environment in which the equipment is expected to be used. The compliance test categories are shown overleaf.

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Device resistance standard:

#### - MIL-STD-810D

Temperature Range: -25C to 100C

Humidity Range: 15%RH to 95%RH

Temperature Change Rate: rise 2C/min - fall 1C/min

Frequency: 3Hz to 2000Hz

Displacement: (0 to 4) mm (peak to peak)

Acceleration; (0 to 10) Gpk

#### - IEC 60068-2-35 - Vibration

Frequency: 3Hz to 2000Hz

Displacement: (0to25) mm (peak-to-peak)

Acceleration: (0 to 50) Gpk

#### - IEC 60068-2-27 - Vibration

Acceleration: 5Gpk to 200 Gpk

Time Duration: 2ms to 16ms

#### - IEC 60068-2-1 - Temperature

Temperature Range > -25C

#### - IEC 60068-2-2 - Temperature

Temperature Range 100C

#### - IEC 60068-2-30

Temperature Range: -25C to 100C

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