



Rugged Tablet Amplus TP-M1050R-A v.1

Category:	UMPC - Ruggedized
Manufacturer:	Amplus
Operating System:	None (Option Windows Xp / 7)
Display:	10.4" (1024x768)
Brightness:	350nit
Processor:	Intel® Atom™ N270 1.6GHZ
Memory:	1GB DDRII
Hard Drive:	2.5" 80GB HDD
Touch screen:	Yes
Durability:	MIL-810F / Full Rugged
Drop:	MIL-STD 810F Method 516.5 / 1.20m
Shock:	MIL-STD 810F Method 516.5
Vibration:	MIL-STD 810F Method 514.5
Temperature:	-20 °C ~ 60 °C
Humidity:	10 - 90%

Other:	MIL-STD 461E / Fanless / Standard VESA
Battery:	4800mAh Li-Ion
Working time on battery:	300min - 5h
LAN:	Yes 10/100/1000 LAN
WLAN:	Yes WiFi b/g
Bluetooth:	Yes Bluetooth 2.0
WAN:	No
GPS:	No (Option)
Camera:	No
In/Out:	1x LAN, 1x Audio out, 1x Micro-in Jack, 2x USB, 1x Power input Jack.
Optional accessories:	Car AC, Docking Station, Vehicle Mount Kit VESA, Vehicle Mount Kit, Carrying Handle, Shoulder Handle, Carry Bag, Car Mounting
Contrast:	-----
Graphics card:	Integrated
Chipset:	Intel® 945GSE
BIOS:	AMI System BIOS
Flash Card Reader:	None
CD/DVD:	No (optional by USB)
Audio:	2 Speakers stereo
Keyboard:	No
Additional Navigation Devices :	No
Color:	Graphit
Swivel Hinge:	No
VGA out:	Yes
TV Out:	No
TV Tuner:	No
Security:	Gum corners
Waterproof:	IP 54
Sand and dust:	IP 54

Size: 311 x 232 x 45 mm / 2.2 Kg / VESA

Product from the Archive - production finished



MENU

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AMPLUX PCs are an ideal gadget for mobile professionals. They enable you to take notes quickly and work in close spaces. Rugged Tablet PCs provide even more benefits for mobile professionals. **TP-M1050R-A** is fully rugged and is certified for both military and industrial ruggedization standards.

Description

Case and size



Integrated options include a GPS solution, GSM/GPRS/EDGE/3G/HSDPA(external PCMCIA card), LCD (touchscreen and digitizer). In addition, IP54 certified design with a full aluminium-magnesium alloy case, helps to ensure that the **TP-M1050R-A** will stand up to the most rigorous environments.

Communications

Amplux **TP-M1050R-A** supports the state of art wireless network feature. It basically supports the wireless LAN 802.11 b/g, Bluetooth has built-in (PCMCIA) 3G HSDPA module and GPS solution options. The great expansion of WiFi technologies to wireless connect to the Internet both in professional and domestic settings through the public or private hot-spots, make your **TP-M1050R-A** an inseparable resource for your daily activities. You can enjoy the use of various wireless networks and wireless Internet to your heart's content with UMPC **TP-M1050R-A** at any time and place where the wireless Internet environment is established.



Processor and chipset



TP-M1050R-A is supported Intel Single Core Atom N270 1.6GHz processor, thanks to what it is unusually energy-saving, keeping near this large efficiency of work, what proof system is Windows XP / 7 which be dedicated for this device.

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Screen

TP-M1050R-A ships standard with a transfective sunlight viewable 10.4" LED 1024x768 screen, ideal for high ambient light conditions standard 350nits, option 800nits. A built-in touch screen allows finger-touch inputs directly on the screen or the use of the stylus pen for data input capability.



Option accessories

AMPLUX delivers our all new Ruggedized Tablet products with two kind of series: one is Rugged Mobile PC Series for a Panel PC with battery charging solution, other series is Rugged Tablet PC Series with totally portable design with hot-swap battery for outdoor use.



Car AC



Docking Station



Vehicle Mount Kit VESA



Vehicle Mount Kit



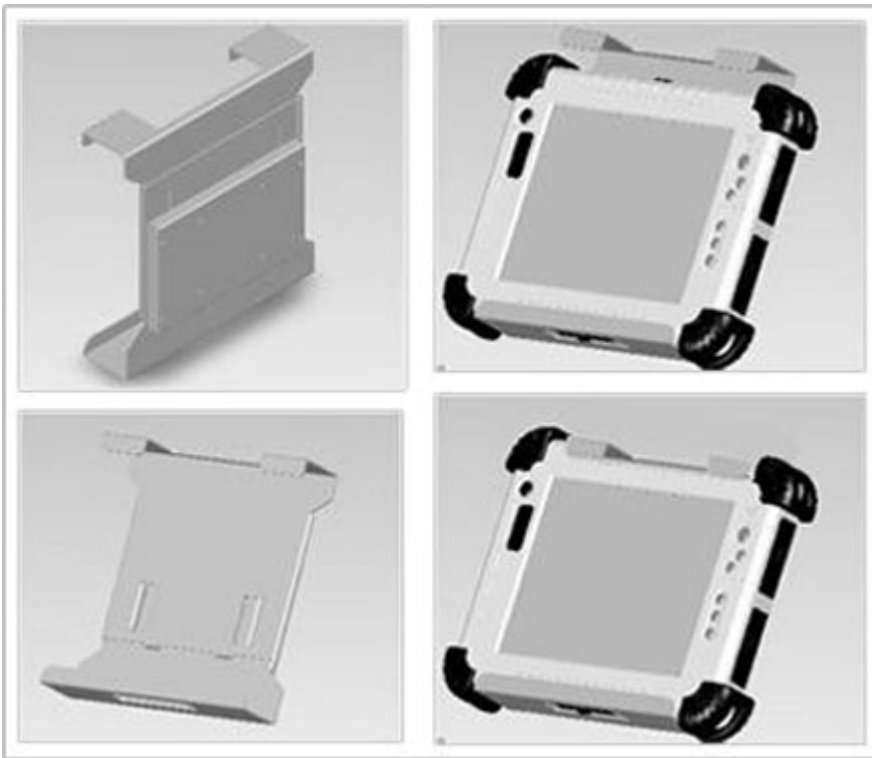
Carrying Handle



Shoulder Handle



Carry Bag



Car holder

Functionality



- | | |
|---------------------|----------------------------|
| 1. Power | 7. VGA |
| 2. LED Indicators | 8. Docking expansion |
| 3. Functions key | 9. 2xUSB, DC-in |
| 4. Buttons Software | 10. LAN, Audio, Microphone |
| 5. Speaker | 11. PCMCIA |
| 6. RS232, USB | |



Ergonomics:

- Designed with about customer.
- Comfortable strong handle be irreplaceable in transportation.

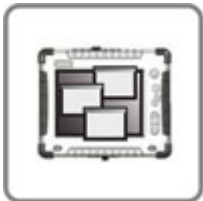
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Mobility:

- WiFi 802.11b/g,
- Bluetooth,
- option GSM/GPRS/CDMA/UMTS/EDGE PCMCIA Express card,
- option GPS PCMCIA Express card



Software:

- Programmable function HotKey buttons.
- Programmable application HotTab SW
- Support: Windows XP, 7



Cooling:

- Fanless.



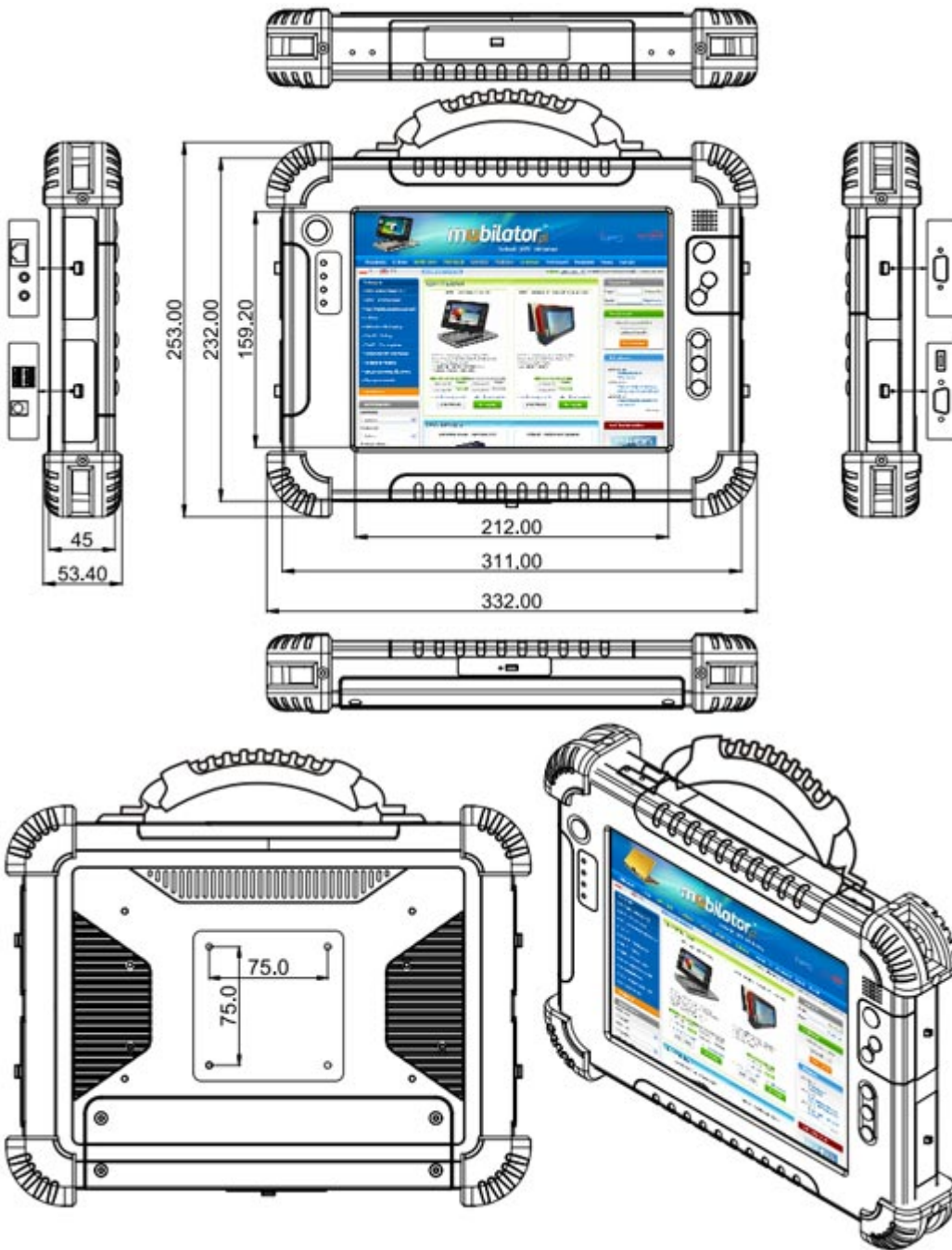
Durability:

- Full Rugged aluminium-magnesium alloy case.

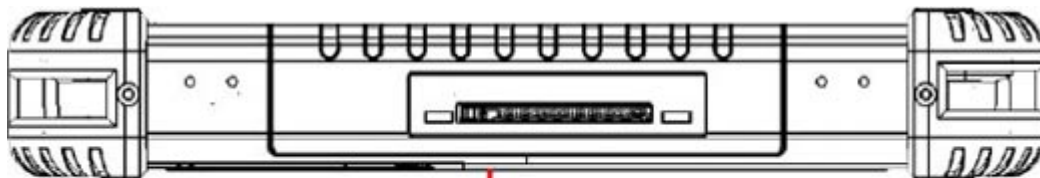


Screen:

- 10.4" LED 1024x768 touch screen, ideal for high ambient light conditions standard 350**nits**, option 800**nits**.

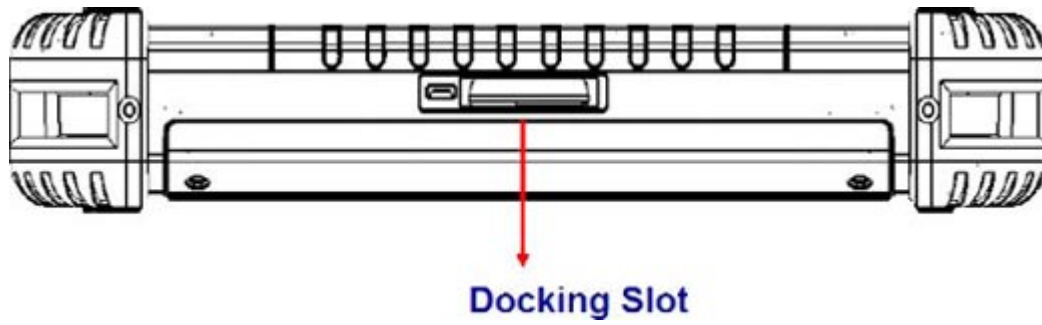


Top view:

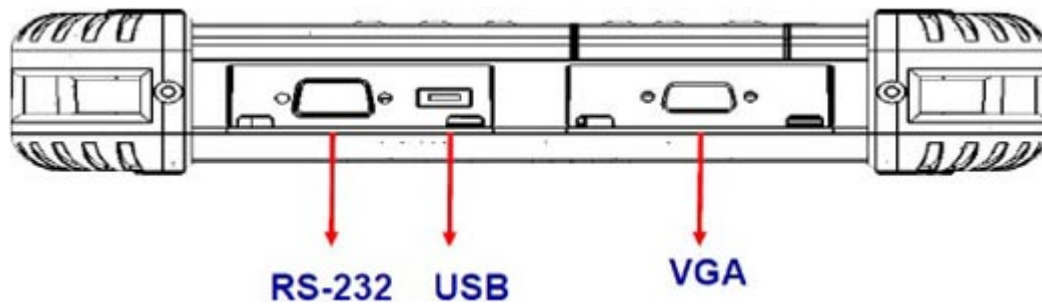


PCMCIA Slot

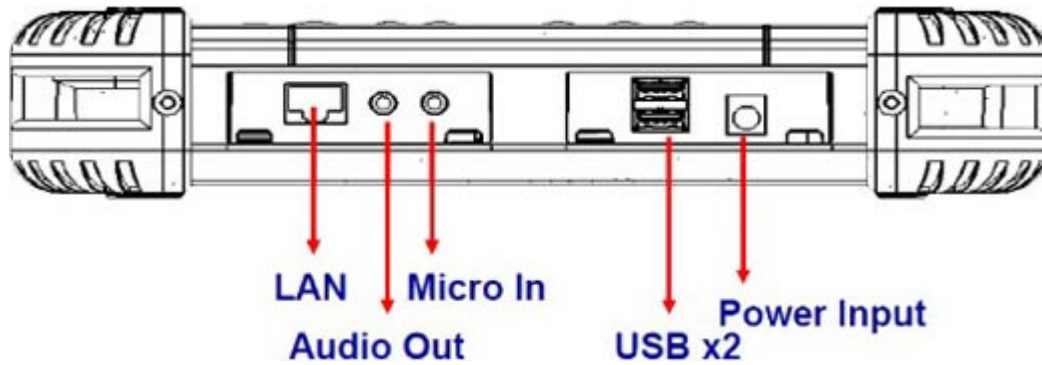
Bottom view:



Right view:



Left view:



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Use

The **TP-M1050R-A**, rugged tablet is ideal solution for Government; industrial/commercial customers who are interested in the ability to work in rough environments yet maintain productivity without the risk of data or performance losses.



**Transportation
& Logistics**

Public Safety

**Medical
Healthcare**



Fire Emergence



Utility & Energy



Military

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Resistance standard

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.

MIL-STD 461E

Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment.

Vibration: MIL-STD 810F Metod 514.5

Shock: MIL-STD 810F Metod 516.5

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Certificate



Dictionary:

Nit - $1\text{Nit} = 1\text{Candela}$ - The candela is the luminous intensity, in a given direction, of a source that emits monochromatic radiation of frequency 540×10^{12} hertz and that has a radiant intensity in that direction of $\frac{1}{683}$ watt per steradian. The definition describes how to produce a light source that (by definition) emits one candela. Such a source could then be used to calibrate instruments designed to measure luminous intensity.

The candela is sometimes still called by the old name candle, such as in foot-candle and the modern definition of candlepower.