MPC-10W3

Fanless Intel® Atom™ N270 10"W Multifunctional Touch Panel PC with Intel® 945GSE + ICH7-M Chipset

Quick Reference Guide

1st Ed – March 2010

Part No. E201710W3A0R

FCC Statement

THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

Copyright Notice

A Message to the Customer

Avalue Customer Services

Each and every Avalue's product is built to the most exacting specifications to ensure reliable performance in the harsh and demanding conditions typical of industrial environments. Whether your new Avalue device is destined for the laboratory or the factory floor, you can be assured that your product will provide the reliability and ease of operation for which the name Avalue has come to be known.

Your satisfaction is our primary concern. Here is a guide to Avalue's customer services. To ensure you get the full benefit of our services, please follow the instructions below carefully.

Technical Support

We want you to get the maximum performance from your products. So if you run into technical difficulties, we are here to help. For the most frequently asked questions, you can easily find answers in your product documentation. These answers are normally a lot more detailed than the ones we can give over the phone. So please consult the user's manual first.

To receive the latest version of the user's manual; please visit our Web site at:

http://www.avalue.com.tw/

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Contents

1. Getting Started

1.1 Safety Precautions

Warning!

Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!

Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

- 1 x MPC-10W3 Panel PC
- 1 x Quick Reference Guide
- 1 x DVD-ROM contains the followings:
  — User's Manual (this manual in PDF file)
  — Ethernet driver and utilities
  — VGA drivers and utilities
  — Audio drivers and utilities
  — Touch Screen Driver
- 1 x Packing set includes the followings:
  — 4 x screws (M4 x 4mm) for VESA-mounting

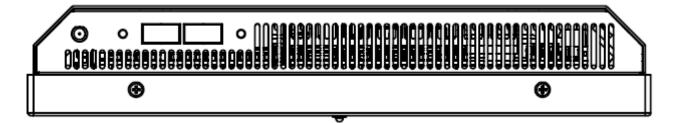If any of the above items is damaged or missing, contact your retailer.

1.3 System Specifications

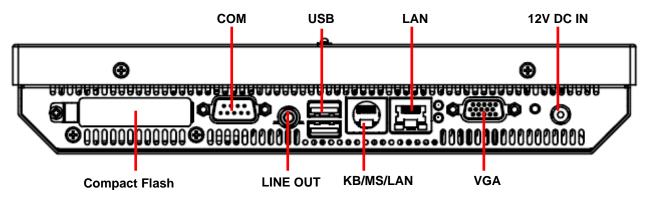| Panel	
Model	**MPC-10W3**
LCD Size	10"W, 17:10
Resolution	1024 x 600
Pixel Pitch	0.21525mm (H) x 0.21525mm (V)
Luminance	250cd/m²
Contrast Ratio	500
Viewing Angle	50(U), 60(D), 70(L), 70(R)
Response Time	25ms
Backlight	LED Backlight
Touch Type (Optional)	5-wires Resistive
Touch Interface	USB

System ⬇	
Board	**EBM-945GSE**
CPU	Onboard Intel® Atom™ N270 1.6GHz (2.5W)
BIOS	Award 8Mbit Flash BIOS
System Chipset	Intel® 945GSE + ICH7-M
I/O Chipset	ITE 8712F
System Memory	Onboard 1GB DDR2 and one 200-pin DDR2 SODIMM supports up to 2GB DDR2 400/533 SDRAM (1GB Per Bank)
SSD	One CF socket bi IDE Secondary Slave Channel supports Type I / II Compact Flash Card.
Watchdog Timer	Reset: 1 ~ 65535 sec./min. and 1 min./step
Display	Intel® 945GSE GMCH integrated GMA950 graphics
Audio	Realtek ALC 655 supports 5.1-CH Audio
Ethernet	Dual Realtek RTL8111C Gigabit LAN, supports wake on LAN
External I/O Ports ⬇	
COM Port	1 x RS-232/422/485
Ethernet Port	2 x RJ-45
VGA / LCD Port	1 x DB-15
Audio Port	Line-out
USB Port	2 x USB 2.0
Speaker	2 x 2W Speaker
Peripheral ⬇	
Camera	Optional 1.3M Pixels CMOS Sensor PC Camera
Bluetooth	Optional USB Bluetooth Module
Power Supply Unit ⬇	
Power Input	100 ~ 250Vdc/ 47 ~ 63Hz
Power Output	+12Vdc/ 5A (60W)
Environment & Mechanical ⬇	
Operating Temperature	0~40°C (32~104°F)
Storage Temperature	-20 to +75°C (-4~167°F)
Relative Humidity	5 ~ 90% @ 40°C (104°F), relative humidity, non-condensing
Size (L x W)	252.8 x 190 x 44.4mm
Weight	1.22Kgs
Mounting	VESA 75 x 75mm, Wall/ Stand

1.4 System Overview

1.4.1 Top View

1.4.2 Bottom View

Connectors

Label	Function	Note
CF	CF Type I/II Socket with Ejector	
COM	Serial port	DB-9 male connector
LINE OUT	Line-out audio jack	
USB	2 x USB 2.0 connector	Dock USB
LAN1	RJ-45 Ethernet connector 1	
LAN2 **(KB/MS)**	RJ-45 Ethernet connector 2 (LAN2 is default, KB/MS is optional)	
VGA	CRT connector	DB-15 female connector
DC IN	DC Power-in connector	

1.5 System Dimensions
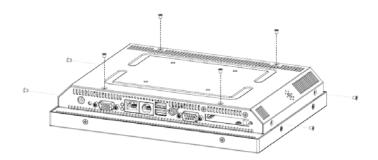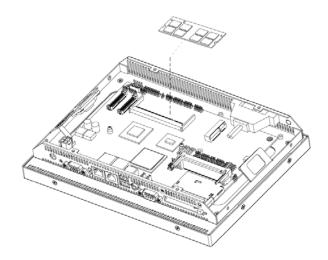
2. Hardware Configuration

Note: If you need more information, please visit our website:
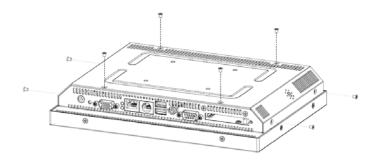
http://www.avalue.com.tw

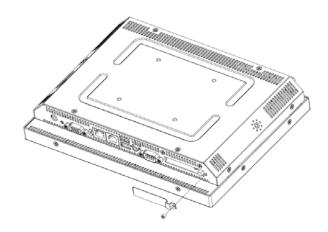## 2.1 Installing CF card and Memory

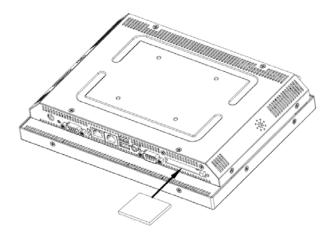**Step1.** Unfasten 8 screws from the case then take off the top chassis.

Step2. Insert the SODIMM into the memory socket.

Step3. Place back the chassis with 8 screws locked.

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Step4. Unfasten the screws from the CF Socket cover.

Step5. Insert the Compact Flash Card into the CF Socket