

UPC-28W7

28" TFT Spanpxiel Panel PC with intel® Atom™ D2550
Dual-Core 1.86GHz CPU

Quick Reference Guide

1st Ed – 18 December 2013

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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 UPC-28W Series Panel PC
- 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
 - WiFi drivers and utilities
 - Touch controller drivers and utilities
- 1 x Power Adapter
- 1 x DC-in extended cable



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

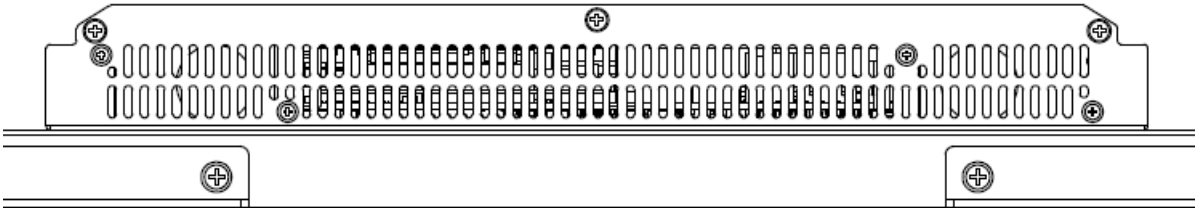
1.3 System Specifications

Panel	
LCD size	28" (16:3)
Display Type	Spanpixel display
Resolution	1366 x 254
Pixel pitch	0.51mm(H) x 0.51mm(V)
Luminance	1000 cd/m ²
Contrast ratio	3000
Viewing angle	89(U), 89(D), 89(L), 89(R)
Response time	6.5ms
Backlight	LED Backlight
System	
Board	EBM-CDV
CPU	Onboard Intel® Cedarview D2550 1.86GHz CPU
System Chipset	Intel NM10 Express
I/O Chip	E/C IT8518E
System Memory	One SODIMM socket supports up to 4GB DDR3 800/1066 SDRAM
SSD	One CF socket supports Type I / II Compact Flash Card
Hard Driver Bay	Optional One 2.5"HDD or SSD
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 x Mini PCIe slot, optional supports mSATA
Rear I/O	
Serial Port	1 x RS-232
Ethernet	1 x RJ-45
HDMI	1 x HDMI
Audio port	1 x Line-out
USB	4 x USB 2.0
Speaker	2 x 1W Speaker
Mouse & K/B	1 x PS/2 KB & MS
Display	
Chipset	Intel® Cedarview Integrated Graphics
Resolution	CRT Mode: 1920 x 1200 @ 60Hz; LCD/Simultaneous Mode : 1400 x 900 @ 60Hz (CDV-D)
Dual Display	LVDS + HDMI
LVDS	Dual 18/24-bit LVDS

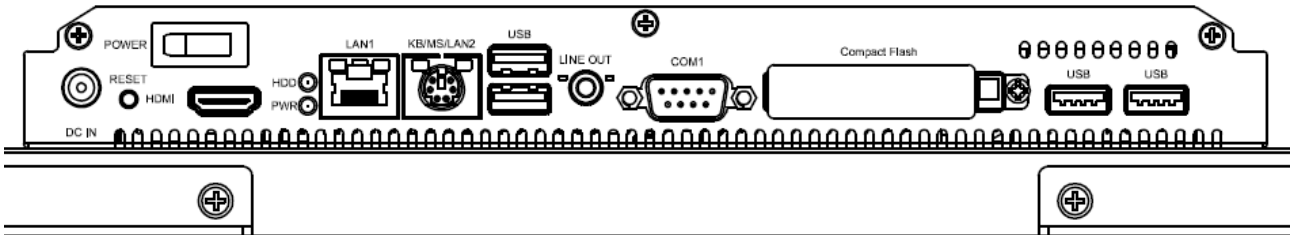
Audio	
AC97 Codec	Realtek ALC892 supports 5.1-CH Audio
Audio Interface	Connector: Line out
Ethernet	
LAN Chip	Intel® 82574L Gigabit LAN, Optional Dual LAN
Ethernet Interface	10/100/1000 Base-Tx Fast Ethernet compatible
Mechanical & Environmental	
Mounting	Wall/Stand/VESA 75 mm x 75 mm
Power Requirement	+12 V ~ +26 V
Power Adapter	100~250 Vdc/ 47~63 Hz
	+24 Vdc / 2.5 A (60W)
Power Type	AT/ATX
Operating Temp.	0 to 40°C
Storage Temp.	-20 to 60°C
Operating Humidity	5%~90% relative humidity, non-condensing
Dimensions	743.4mm x 205.5mm x 49.3mm
Weight	4.8 Kgs

1.4 System Overview

1.4.1 Front View



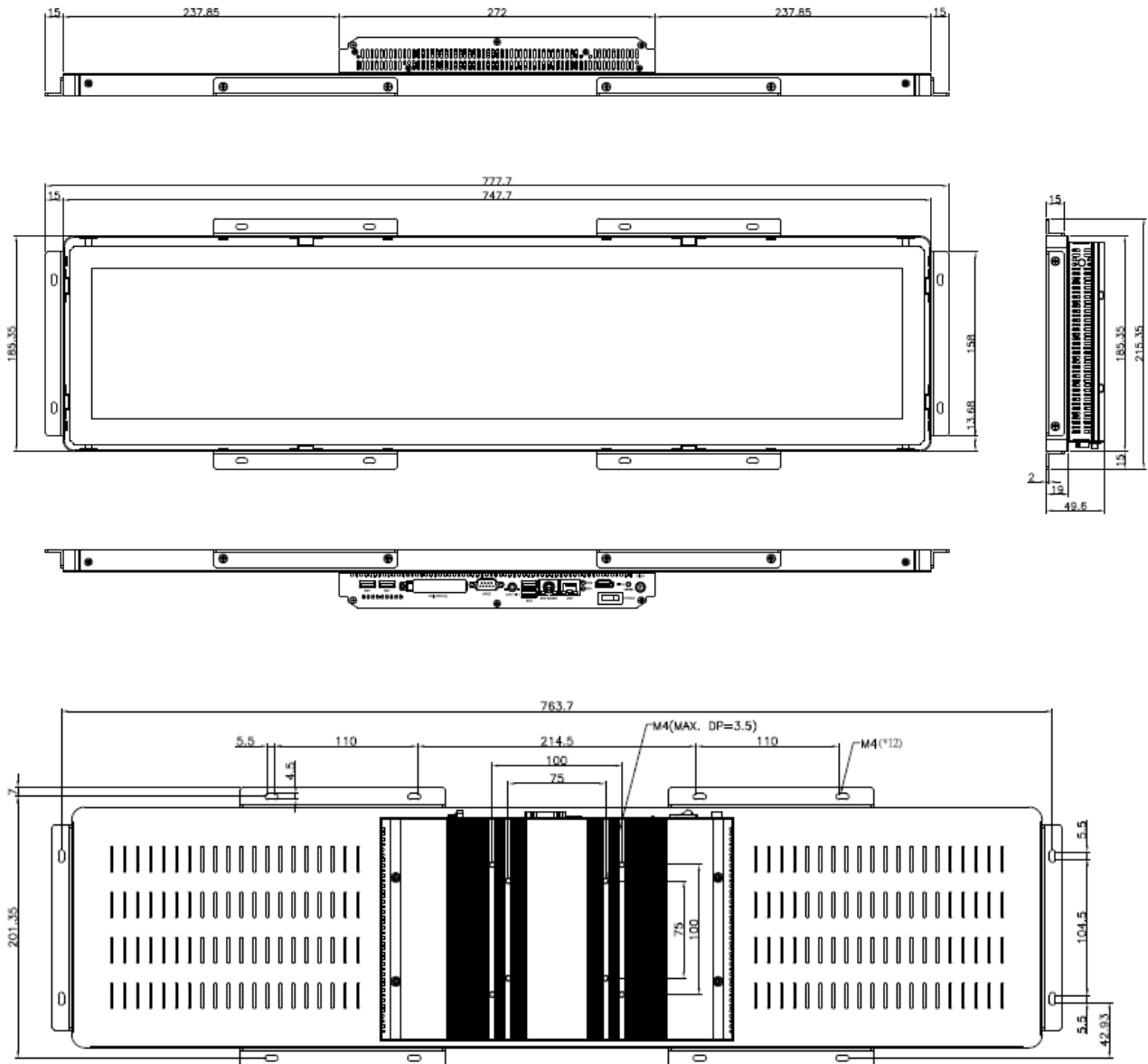
1.4.2 Rear View



Connectors

Label	Function	Note
POWER	Power on button	
COM1	Serial port	DB-9 male connector
LINE OUT	Line-out audio jack	
USB	4 x USB 2.0 connector	Dock USB
LAN1	RJ-45 Ethernet connector	
KB/MS/LAN2	PS/2 connector Optional 2nd LAN	
Compact Flash	Compact Flash card connector	
DC-IN	DC Power-in connector	
RESET	Reset button	
HDMI	HDMI connector	
HDD	HDD indicator	
PWR	System power indicator	

1.5 System Dimensions



(Unit: mm)

2. Hardware Configuration

Please refer to EBM-CDV Quick Installation Guide or User's Manual for advanced information.

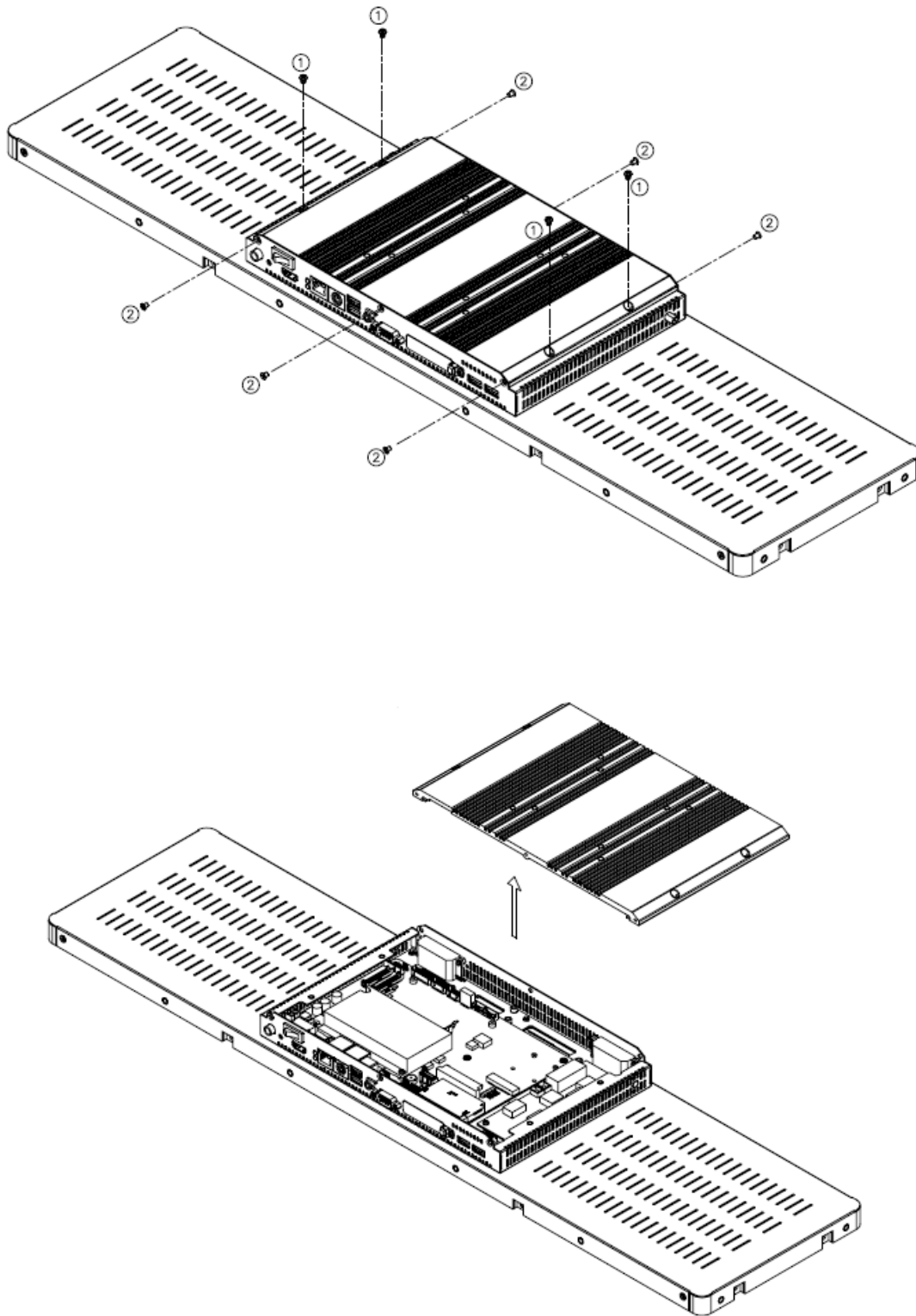


Note: If you need more information, please visit our website:

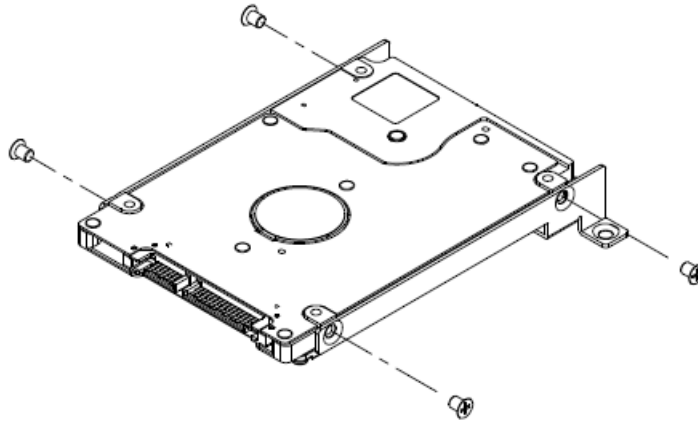
<http://www.avalue.com.tw>

2.1 Installing Hard Disk & Memory

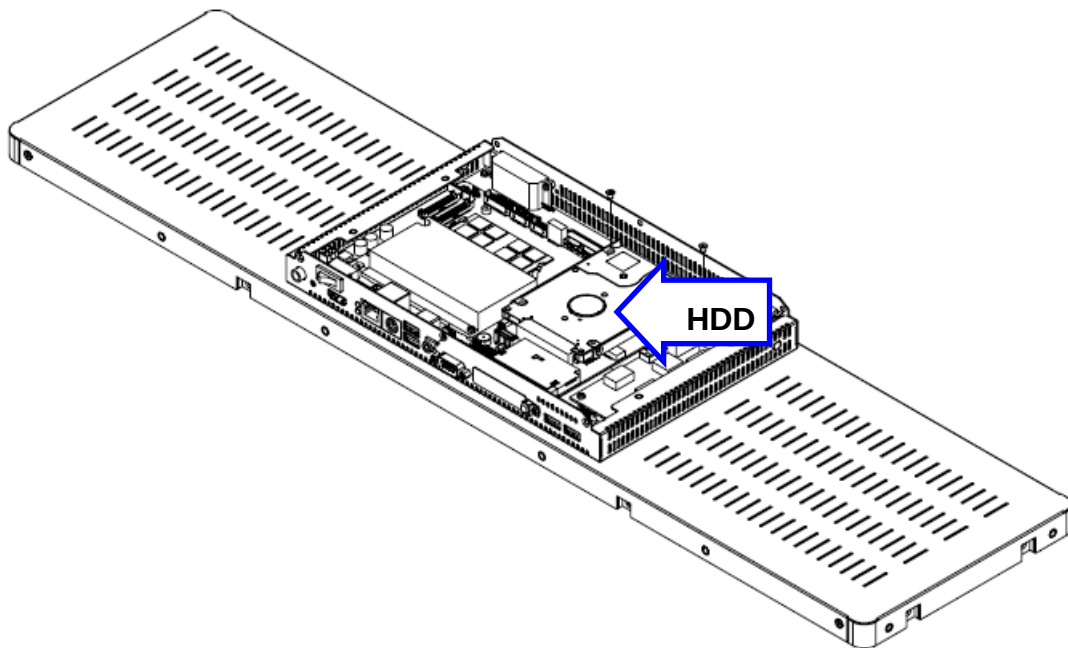
Step 1. Unfasten 10 screws from the case to take off the top chassis.



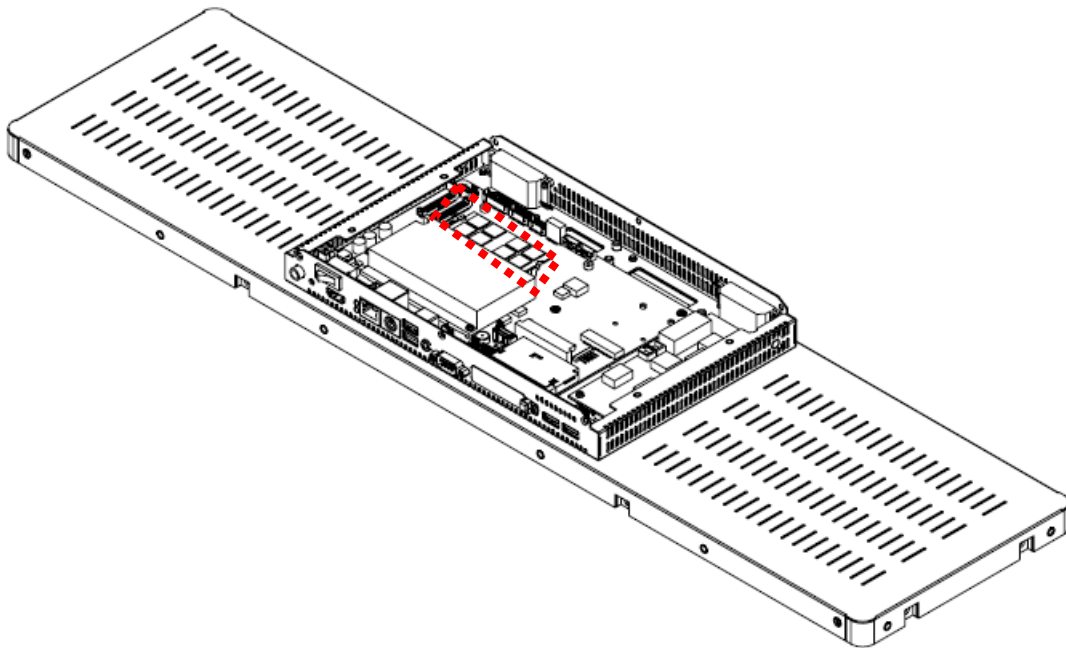
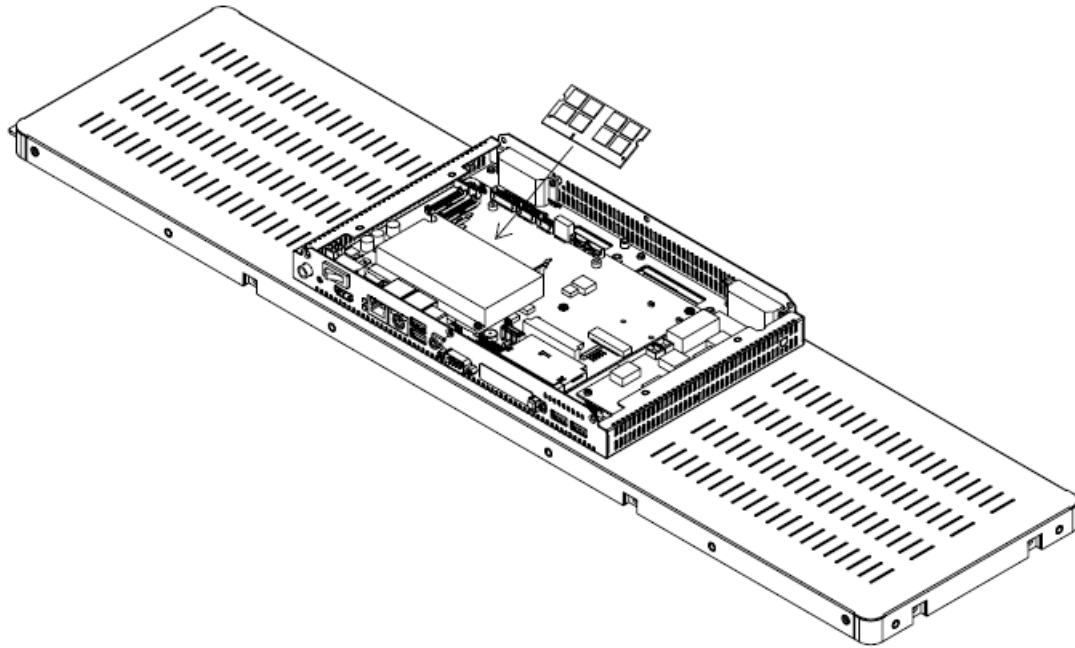
Step 2-1. HDD Installation: Insert the HDD into the bracket and fasten 4 screws.



Step 2-2. Insert the HDD back and fasten 4 screws.



Step 3. Memory Installation: Insert the SODIMM into the memory socket.



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Step 4. Place back the chassis with 10 screws locked.

