

LPC-1207

12.1" Fanless Multifunctional Touch Panel Computer

Quick Reference Guide

1st Ed – 11 February 2015

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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 UNDESIRE 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.

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/>

Content

- 1. Getting Started4**
 - 1.1 Safety Precautions4
 - 1.2 Packing List.....4
 - 1.3 System Specifications5
 - 1.4 System Overview7
 - 1.4.1 Top View..... 7
 - 1.4.2 Bottom View..... 7
 - 1.5 System Dimensions8
- 2. Hardware Configuration9**
 - 2.1 LPC-1207 connector mapping.....10
 - 2.1.1 Serial Port connector (COM) 10
 - 2.2 Installing Hard Disk & Memory11

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 LPC-1207 12.1" Fanless Multifunctional Touch Panel Computer
- 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
 - Chipset driver and utilities
- 1 x Power Adapter
- 1 x Stand for Panel PC (optional)



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

1.3 System Specifications

Panel	
LCD size	12.1", 4:3
Display Type	XGA
Resolution	1024 x 768
Pixel pitch	0.240mm(H) x 0.240mm(V)
Luminance	600 cd/m ²
Contrast ratio	700
Viewing angle	70(U), 70(D), 80(L), 80(R)
Response time	16 ms
Backlight	LED
Touch Type	5 Wires resistive
Touch Light transmission	80
Touch Interface	USB (EETI)
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 CompactFlash Type I/ II Socket (Support optional InnoDisk CF-SATA)
Hard Driver Bay	One 2.5" SATA HDD
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	2 x USB 2.0
Mouse & K/B	1 x PS/2 KB & MS
Display	
Chipset	Intel® Cedarview Integrated Graphics

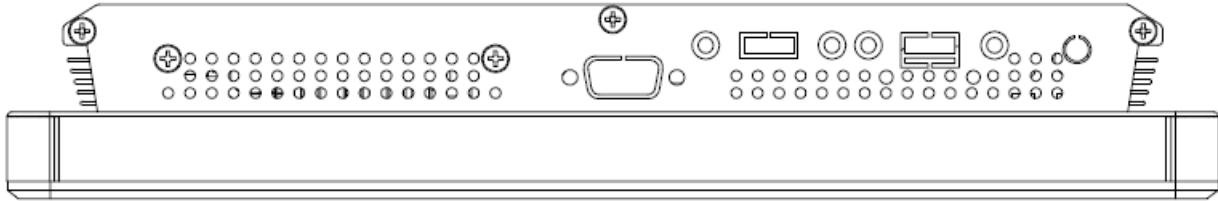
Dual Display	LVDS + HDMI
Audio	
AC97 Codec	Realtek ALC892 supports 5.1-CH Audio
Audio Interface	Connector: Line out
Ethernet	
LAN Chip	Intel® 82574L Gigabit LAN, Optional Dual LAN
Ethernet Interface	10/100/1000 Base-Tx Fast Ethernet compatible
Mechanical & Environmental	
Color	Front Silver & Rear panel Black
Mounting	Wall/Stand/VESA 75 mm x 75 mm
Power Requirement	+12 V ~ +26 V
Power Adapter	Input: 100~240 Vac/ 50~60 Hz Output: +12 Vdc / 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	283 x 222 x 45 mm
Weight	2.84 Kgs



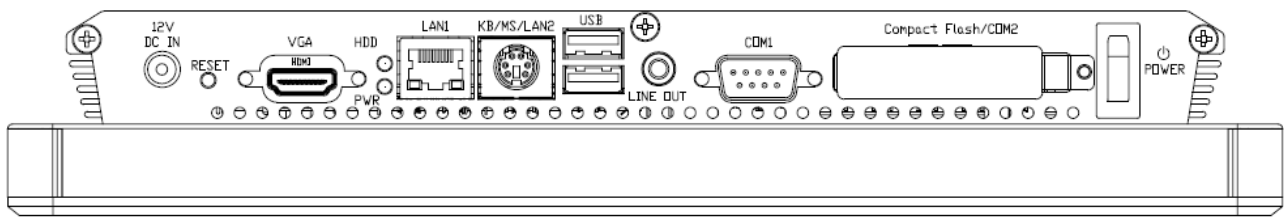
Note: Specifications are subject to change without notice.

1.4 System Overview

1.4.1 Top View



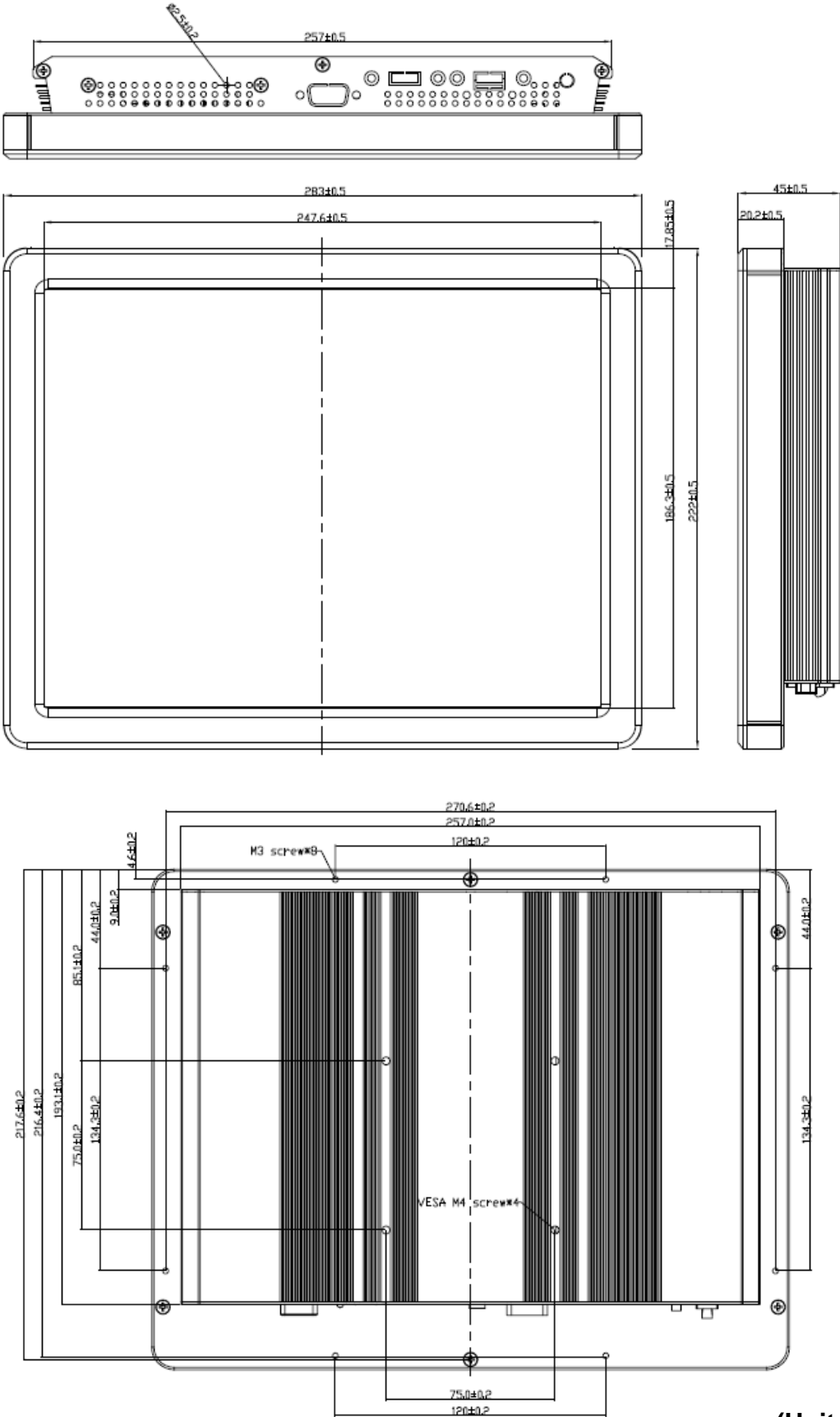
1.4.2 Bottom View



Connectors

Label	Function	Note
POWER	Power on button	
CF	CF Type I/II Socket with Ejector	Optional for 2 nd COM port
COM	Serial port connector	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	
KB/MS	PS/2 connector	
(LAN2)	Optional 2nd LAN	
HDD	HDD indicator	
PWR	System power indicator	
HDMI	HDMI connector	
RESET	Reset button	
DC-IN	DC Power-in connector	

1.5 System Dimensions



(Unit: mm)

2. Hardware Configuration

For advanced information, please refer to:

- 1- EBM-CDV User's Manual

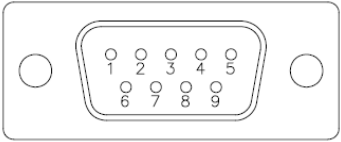
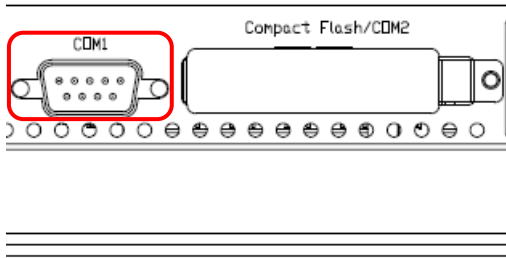


Note: If you need more information, please visit our website:

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

2.1 LPC-1207 connector mapping

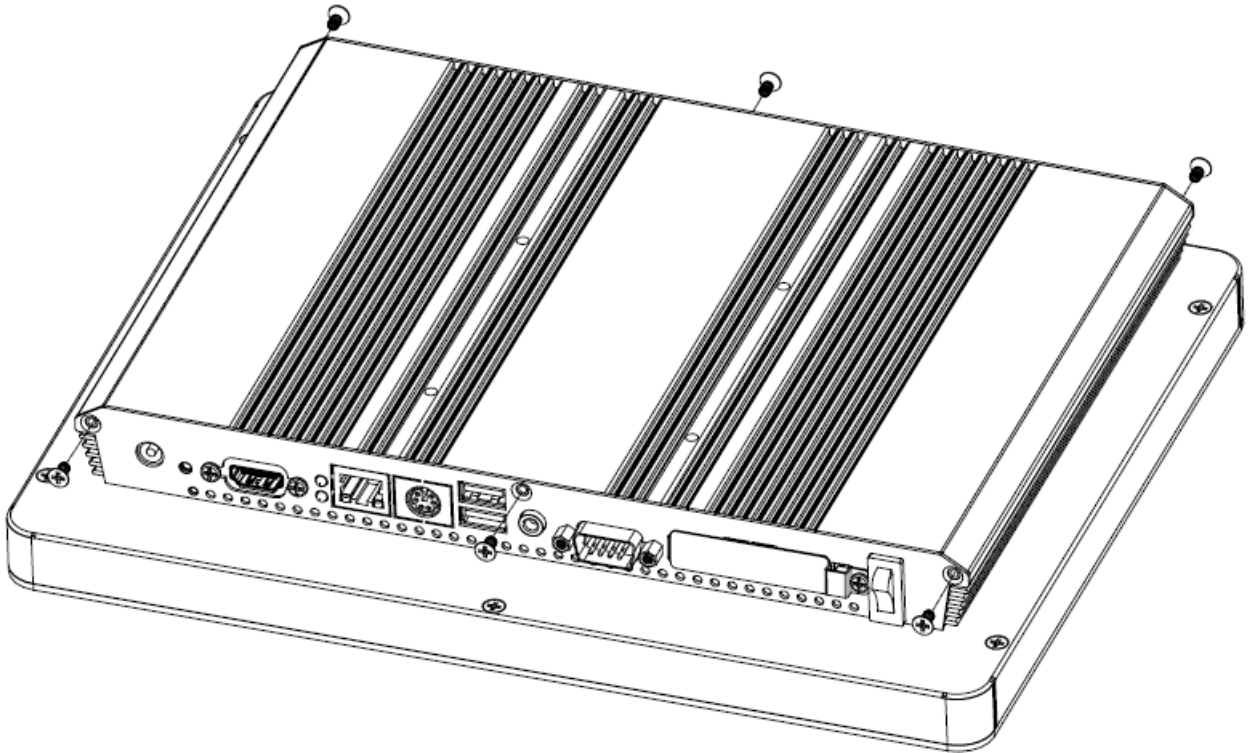
2.1.1 Serial Port connector (COM)



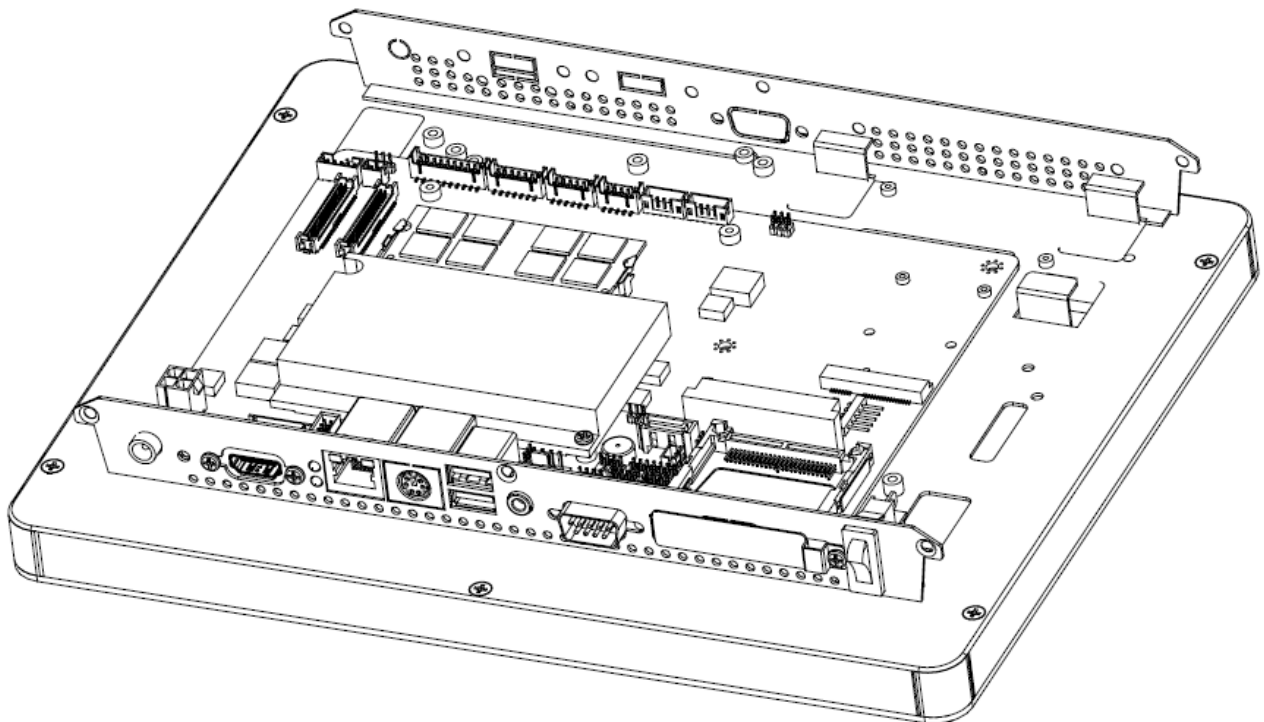
Signal	PIN	PIN	Signal
DCD	1	6	DSR
RxD	2	7	RTS
TxD	3	8	CTS
DTR	4	9	RI
GND	5		

2.2 Installing Hard Disk & Memory

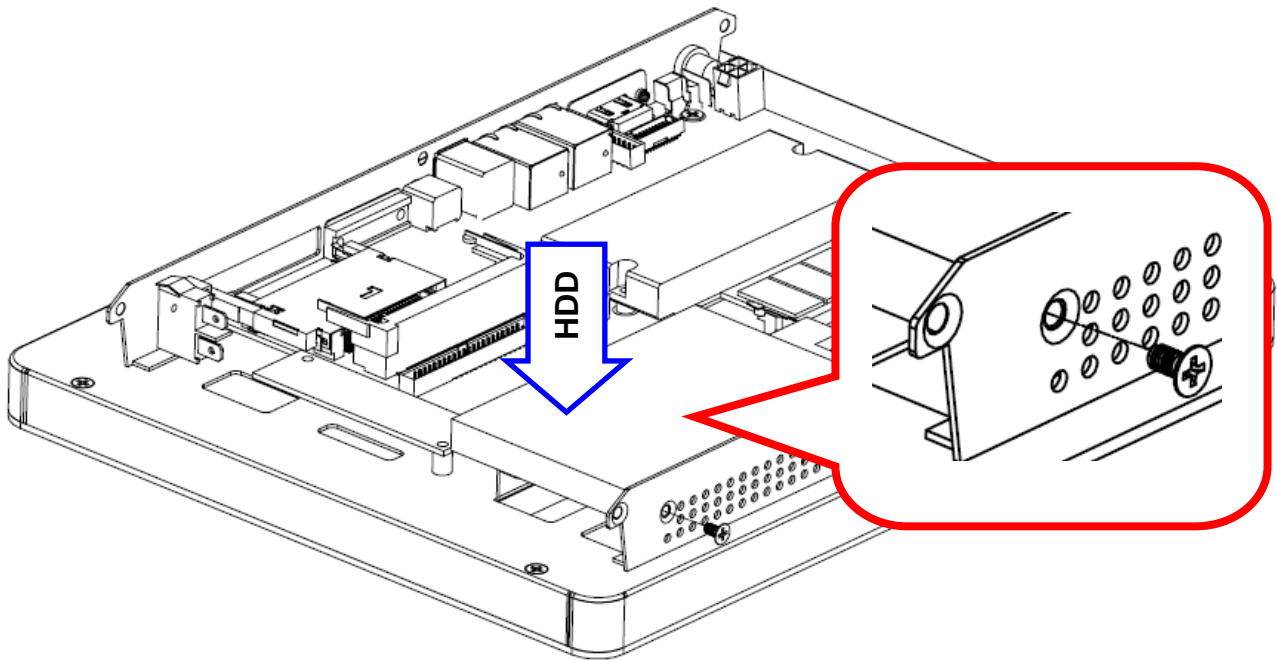
Step 1. Unfasten 6 screws from the case. Then take off the top chassis.



Step 2. Insert the SODIMM into the memory socket.



Step 3. Insert the HDD into the Drive Bay. Remember to place the HDD down to the bottom exactly in order to screw the device tightly.



Step 4. Place back the chassis with 6 screws locked.

