

PPC 1525/1527 Series

Fanless 15" XGA TFT Multifunctional Plastic Panel PC

Quick Reference Guide

1st Ed – 19 June 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 PPC-1525/1527 Series Panel PC
- 1 x CD/DVD-ROM contains the followings:
 - Ethernet drivers and utilities
 - VGA drivers and utilities
 - Audio drivers and utilities
 - Wi-Fi drivers and utilities
 - Touch controller drivers and utilities
 - Chipset drivers and utilities
- 1 x packing set includes the followings:
 - 1 x power cord
 - 1 x AC/DC adapter 12V/5A 60W



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

1.3 System Specifications

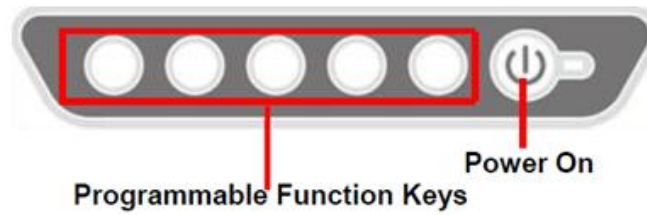
Component		
Model	PPC-1525	PPC-1527
Mother Board	EBM-PNV	EBM-CDV
CPU	Onboard Intel® Atom™ D525 Dual Core 1.8GHz CPU	Onboard Intel® Atom™ D2550 1.86GHz CPU
CPU Cooler (Type)	Fanless Heatsink	Fanless Heatsink
Memory	One 204-pin SODIMM Supports Up to 4GB DDR3 800MHz SDRAM	One 204-pin SODIMM Supports Up to 4GB DDR3 1066MHz SDRAM
Audio Chipset	RealTek ALC888-VC2-GR	RealTek ALC892-GR
System Power Requirement	+12V ~ +26V DC Power Input	+12V ~ +26V DC Power Input
Adapter	Input: 100 ~ 250Vdc/ 47 ~ 63Hz Output: 60W Adapter (12V @ 5A Adapter)	Input: 100 ~ 250Vdc/ 47 ~ 63Hz Output: 60W Adapter (12V @ 5A Adapter)
Speaker	8Ω 2W*2	8Ω 2W*2
Camera	Optional 2.0M Pixel Camera with Microphone	Optional 2.0M Pixel Camera with Microphone
Wireless LAN	Optional USB or Mini PCIe WiFi Module	Optional USB or Mini PCIe WiFi Module
Operating System	Windows 7 Windows Embedded Standard 7 Windows Embedded POSReady 7 Windows 7 For Embedded System	Windows 7 Windows Embedded Standard 7 Windows Embedded POSReady 7 Windows 7 For Embedded System
Storage		
Hard Disk Drive	2.5" HDD	2.5" HDD
Solid State Drive	2.5" SSD	2.5" SSD
Other Storage Device	Type I/II CF	Type I/II CF
Panel		
LCD Panel	15" XGA TFT LCD 1024 x 768	15" XGA TFT LCD 1024 x 768
LCD Control Board	Built-in	Built-in
B/L Inverter/Converter	Built-in	Built-in
Touch Screen	5-wire Resistive	5-wire Resistive
Touch Controller	Onboard Touch EETI	Onboard Touch EETI
External I/O		
PS/2 KB & Mouse	1 x PS/2 KB & MS	1 x PS/2 KB & MS
Serial Port	2xCOM D-sub 9 Pin RS-232 (RS-232/422/485 change by jumper,	2xCOM D-sub 9 Pin RS-232 (RS-232/422/485 change by jumper,

PPC-1525/1527 Series

	COM2 is optional)	COM2 is optional)
USB Port	4 x USB (2 for Optional)	4 x USB (2 for Optional)
Video Port	1 x VGA D-sub 15 pin	1 x HDMI
Audio Port	1 x Line out	1 x Line out
LAN Port	2 x RJ-45 (1 For Optional)	2 x RJ-45 (1 For Optional)
Mechanical		
Power Type	AT/ATX	AT/ATX
Power Connector Type	Power switch	Power switch
Dimension	351mm x 319mm x 54mm	351mm x 319mm x 54mm
Weight	4.9 Kgs	4.9 Kgs
Color	White + Gray	White + Gray
Fanless	Fanless	Fanless
Reliability		
EMI Test	Class B	Class B
Safety	CE FCC	CE FCC
Operating Temperature	0°C ~ 40°C	0°C ~ 40°C
Operating Humidity	0%~90% relative humidity, non-condensing	0%~90% relative humidity, non-condensing
Storage Temperature	-10~50°C	-10~50°C

1.4 System Overview

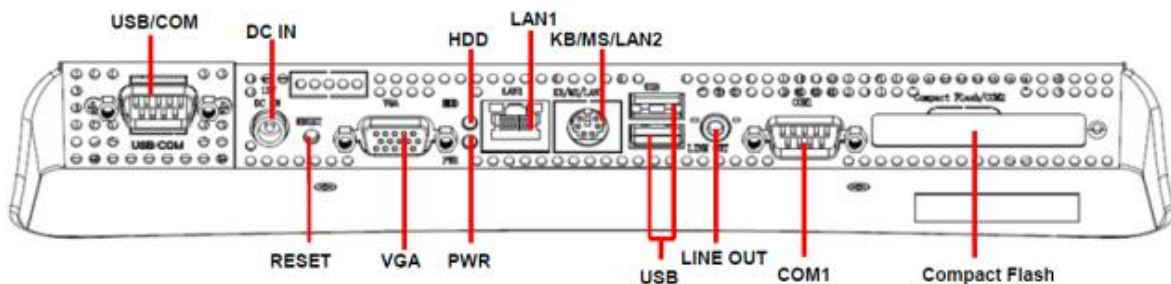
1.4.1 Front View



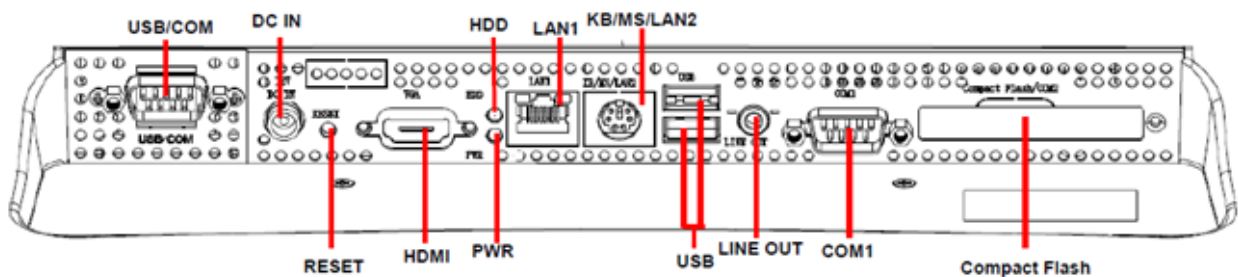
Note: The programmable function keys are available to be programmed by the user, and they are unable to work unless programmed.

1.4.2 Rear View

PPC-1525



PPC-1527

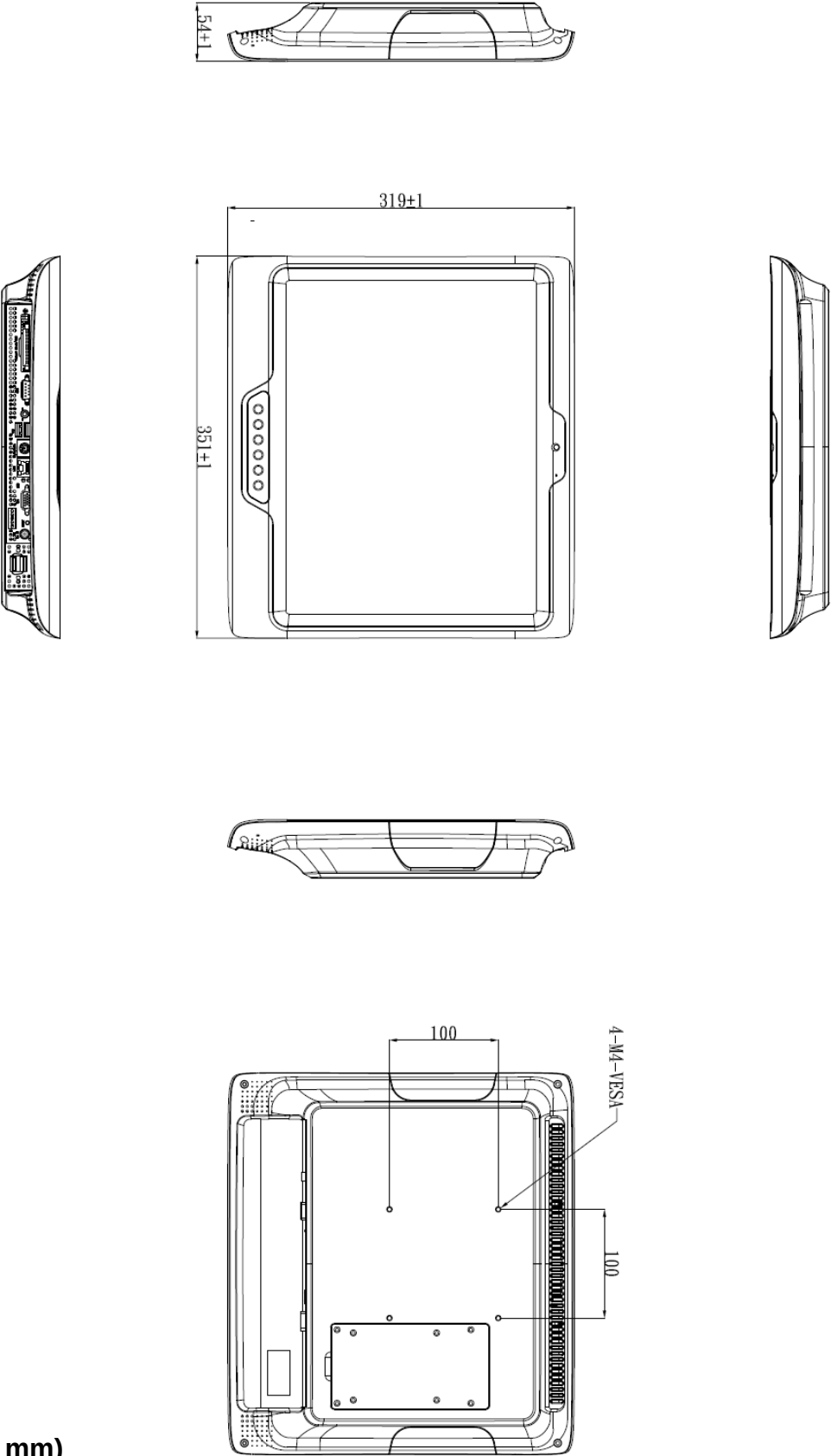


Connectors

Label	Function	Note
USB/COM	USB 2.0 connector Serial port connector	DB-9 male connector
COM1	Serial port 1 connector	DB-9 male connector
Compact Flash/COM2	CF Type I/II Socket with Ejector	
DC IN	DC Power-in connector	
HDD	HDD LED	
LAN1	RJ-45 Ethernet connector 1	
KB/MS/LAN2	PS/2 connector Optional 2 nd LAN	
LINE OUT	Line-out audio jack	
PWR	Power LED	
RESET	Reset button	
USB	USB 2.0 connector	
VGA	VGA connector	only PPC-1525
HDMI	HDMI connector	only PPC-1527

1.5 System Dimensions

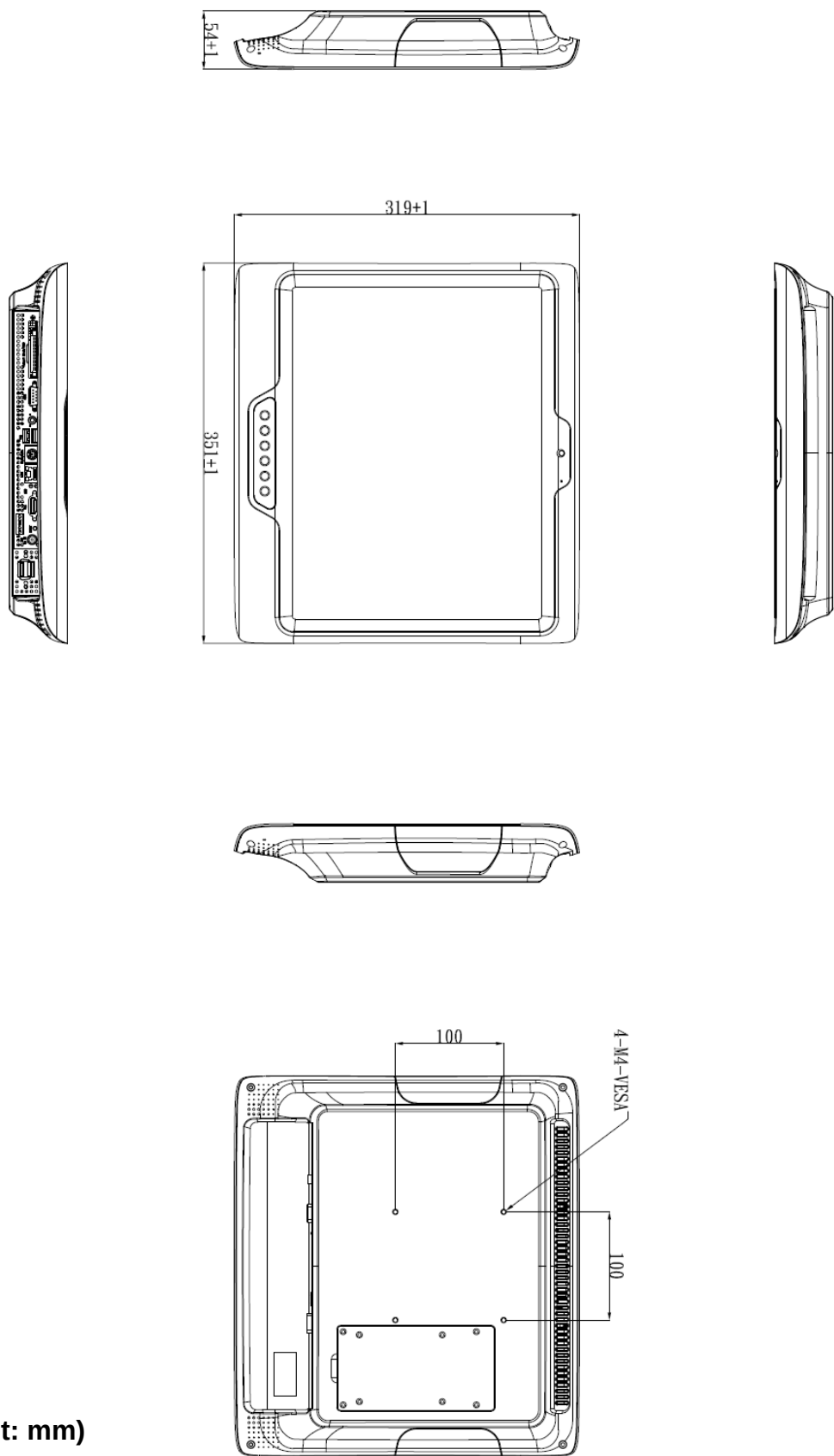
1.5.1 PPC-1525



(Unit: mm)

PPC-1525/1527 Series

1.5.2 PPC-1527



(Unit: mm)

2. Hardware Configuration

- Please refer to EBM-PNV, EBM-CDV Quick Installation Guide or User's Manual.

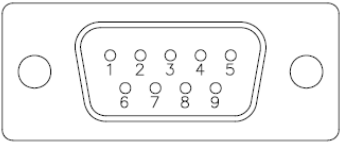
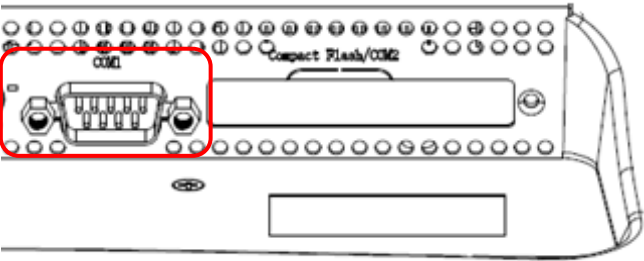


Note: If you need more information, please visit our website:

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

2.1 PPC-1525/1527 Series connector mapping

2.1.1 Serial Port 1 connector (COM1)



In RS-232 Mode

Signal	PIN	PIN	Signal
DCD1	1	2	RxD1
TxD1	3	4	DTR1
GND	5	6	DSR1
RTS1	7	8	CTS1
RI1	9		NC

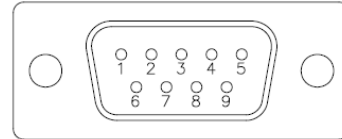
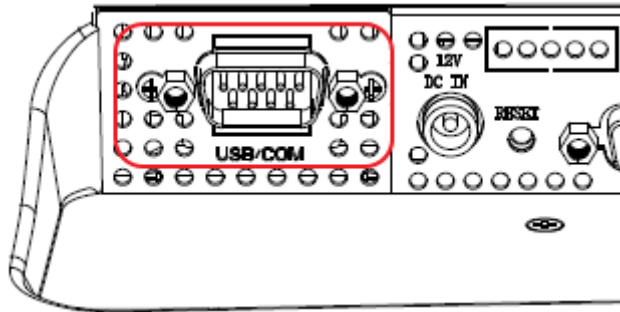
In RS-422 Mode

Signal	PIN	PIN	Signal
TxD1-	1	2	RxD1+
TxD1+	3	4	RxD1-
GND	5	6	NC
NC	7	8	NC
NC	9		NC

In RS-485 Mode

Signal	PIN	PIN	Signal
DATA1-	1	2	NC
DATA1+	3	4	NC
GND	5	6	NC
NC	7	8	NC
NC	9		NC

2.1.2 USB 2.0 connector/Serial Port connector (USB/COM2)



In RS-232 Mode

Signal	PIN	PIN	Signal
DCD2	1	2	RxD2
TxD2	3	4	DTR2
GND	5	6	DSR2
RTS2	7	8	CTS2
RI2	9		NC

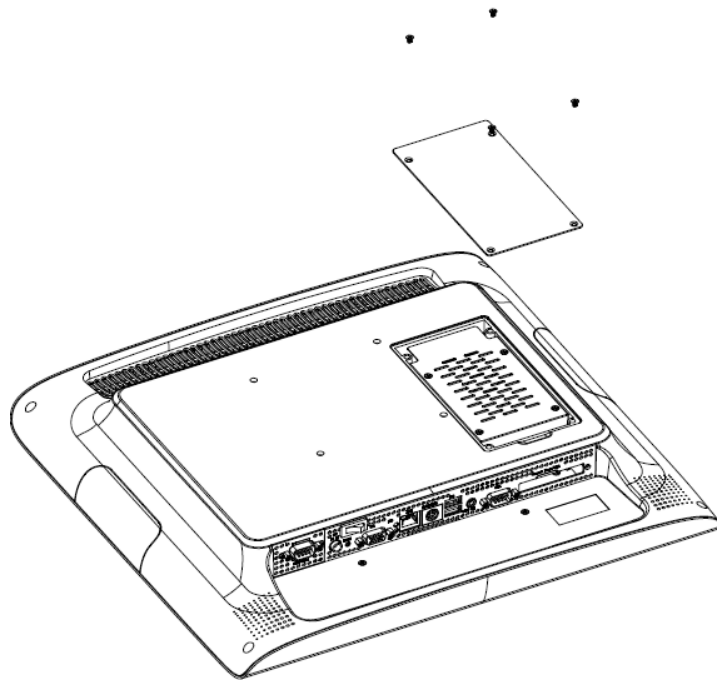
In RS-422 Mode

Signal	PIN	PIN	Signal
TxD2-	1	2	RxD2+
TxD2+	3	4	RxD2-
GND	5	6	NC
NC	7	8	NC
NC	9		NC

In RS-485 Mode

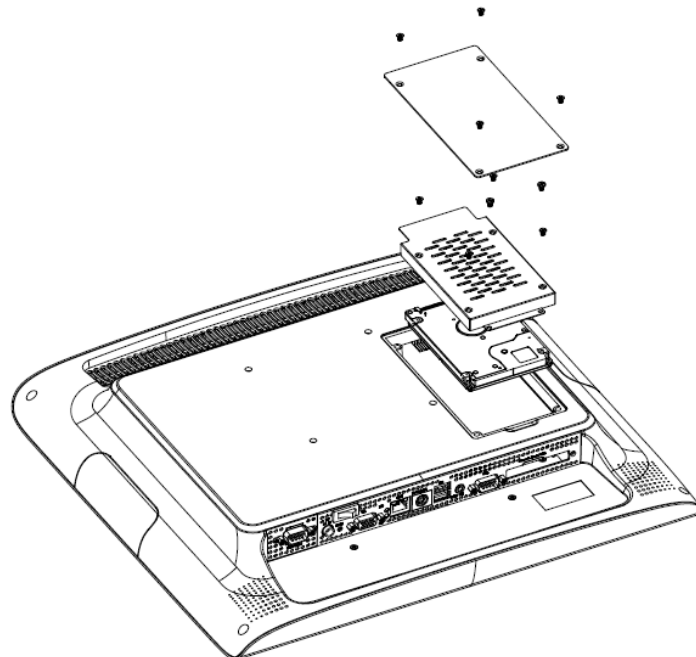
Signal	PIN	PIN	Signal
DATA2-	1	2	NC
DATA2+	3	4	NC
GND	5	6	NC
NC	7	8	NC
NC	9		NC

2.2 Installing Hard Disk & Memory



Step 1. Unfasten 4 screws from the rear middle side of your panel.

Step 2. Remove the HDD service window.



Step 3. Slide HDD into its bracket until properly seated .

Step 4. Secure HDD by means of 4 screws.

