Onyx-151

Professional Panel PC / LCD PC

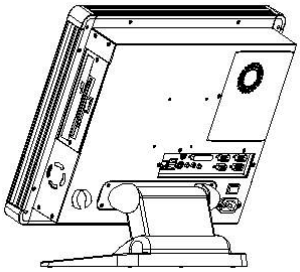
Quick Installation Guide

NOTE:

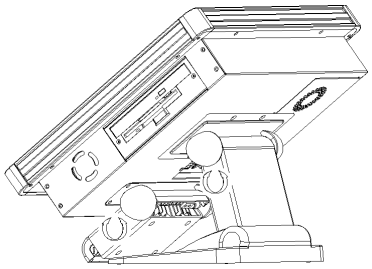
This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to electronic user`s manual in the supporting CD-ROM.

Contents

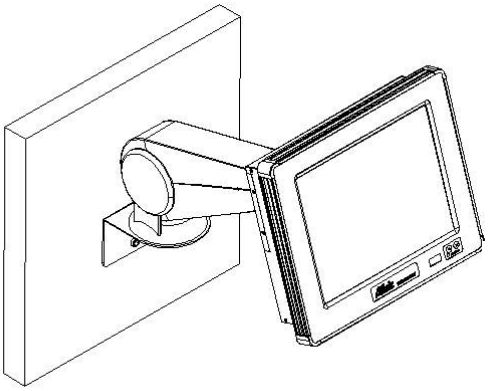
A. Perspectives



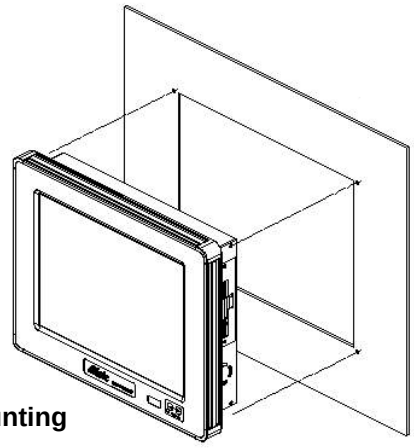
Desktop



Tilting



Swivel arm mounting

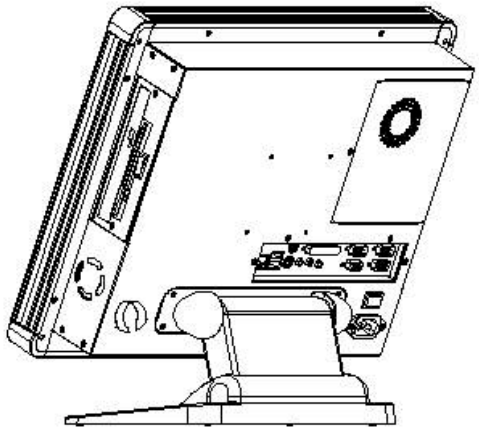


Panel mounting

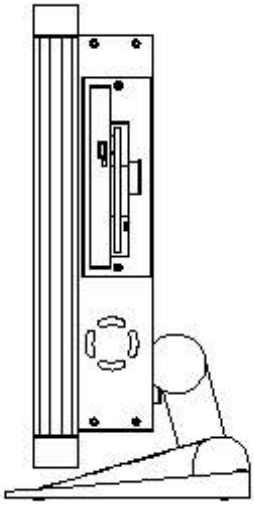
B. Specifications

Onyx-151 General Specifications		
LCD		15 color TFT 1024x768, 200 cd/m2 high brightness
Power supply		100W 90~240VAC (optional 18~36VDC or 36~72VDC power supply)
CPU		Cerelon socket370 CPU, Coppermine PIII coming soon
Memory		Up to 256MB
HDD		One 2 5 hard drive
FDD		One 3 5 slim floppy drive
CD-ROM drive		One 24X CD-ROM drive
Flash disk		DiskOnChip from M-system
Networking (LAN)		10/100 Base-T
I/O	COM ports	1x RS-232, 3x RS-232/422/485
	Parallel port	Yes
	PS/2 mouse & K/B	Yes
	VGA port	Yes
	Bus expansion	NIL
	Touch screen	Resistive touch screen (optional)
	USB	Yes
	Audio	Yes
Watchdog timer		Yes
Infrared transmission		Yes
Brightness control		Yes
Mounting		Desktop stand (standard), Tilting kit (optional), Swivel arm (optional) Panel mounting (standard)
Front panel meets IP-65, NEMA 4/12		Yes
Operation Temperature	PC module	0~60 ℃
	LCD module	0~50 ℃

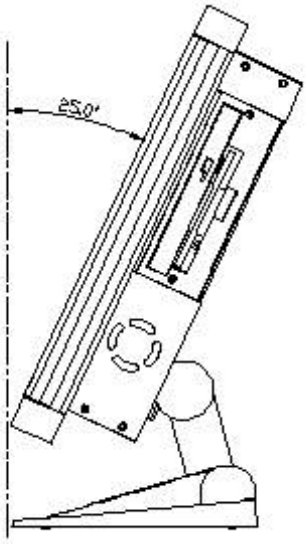
C. Onyx-151 in a desktop stand



Rear view

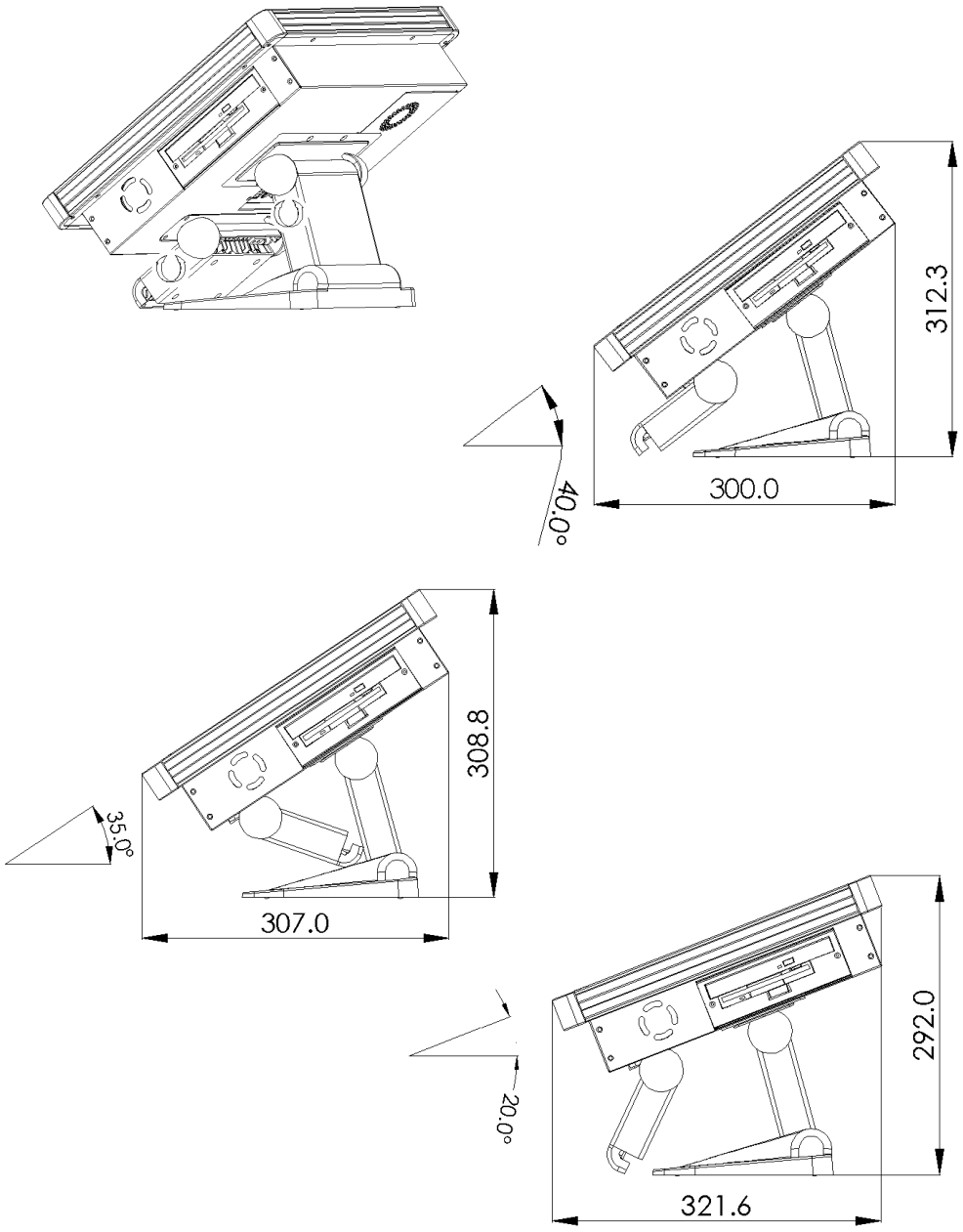


Side view

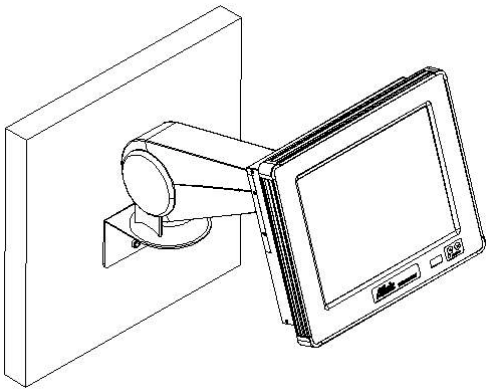


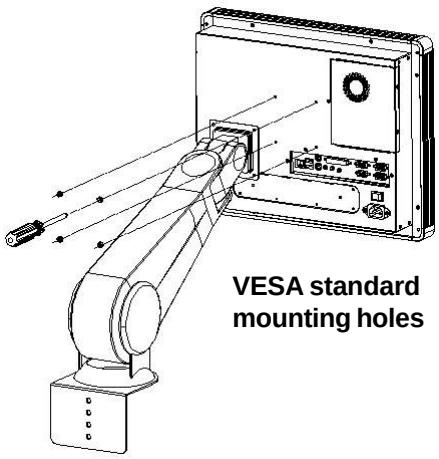
25 degree pitch allowance

D. Onyx-151 in a tilting stand

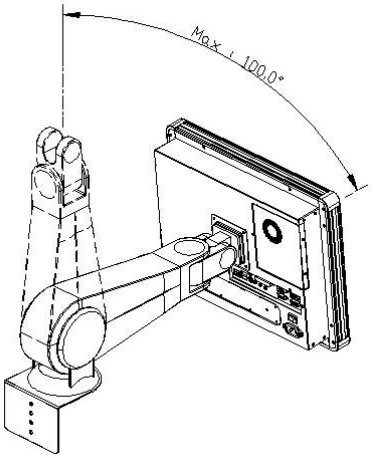


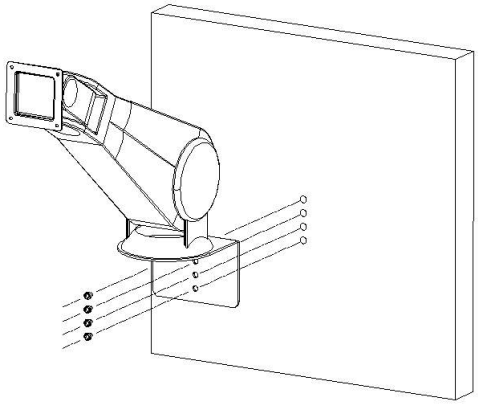
E. Onyx-151 in a swival arm

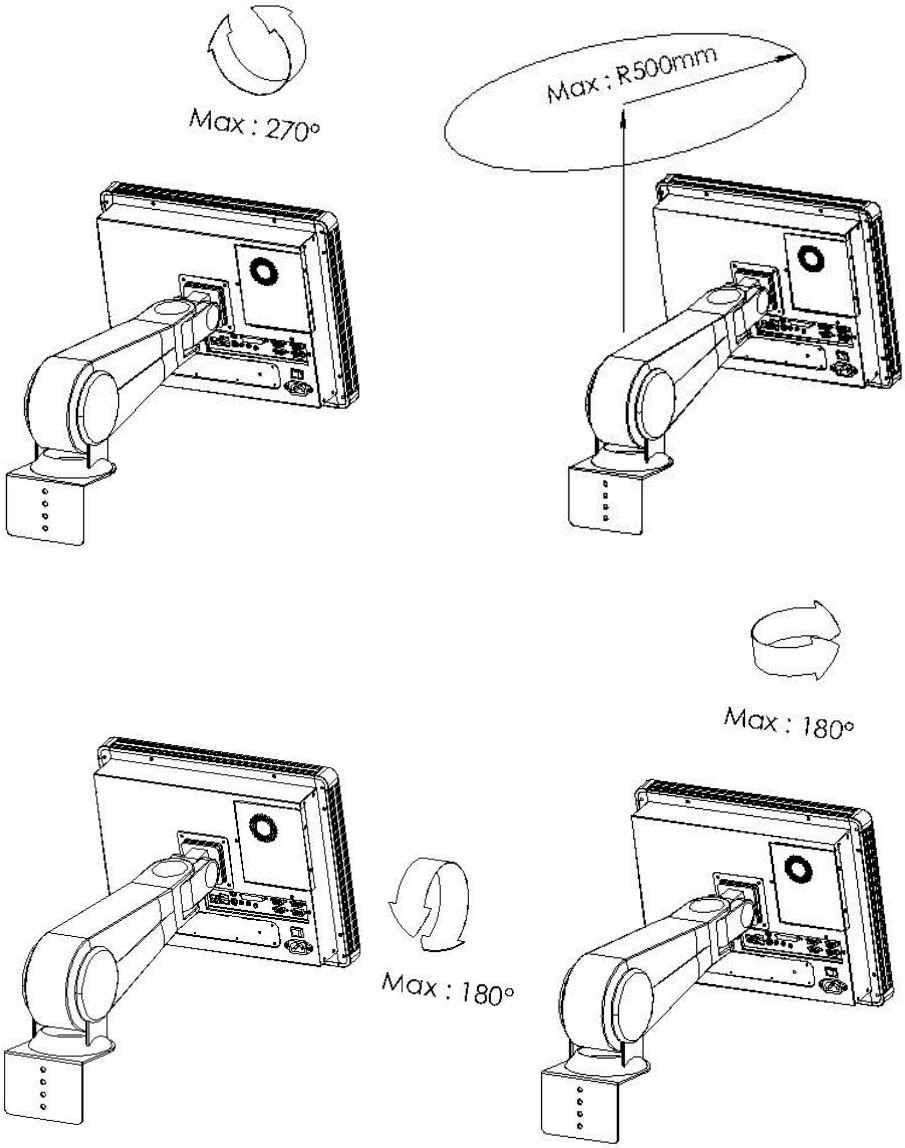




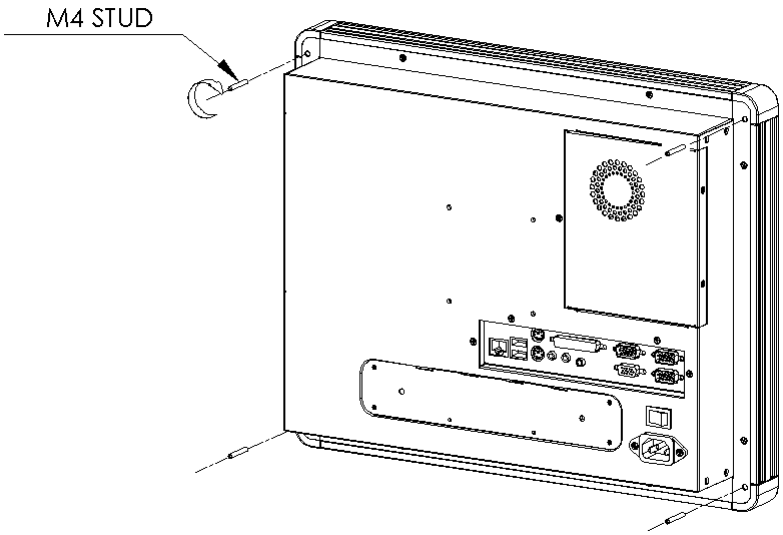
VESA standard mounting holes

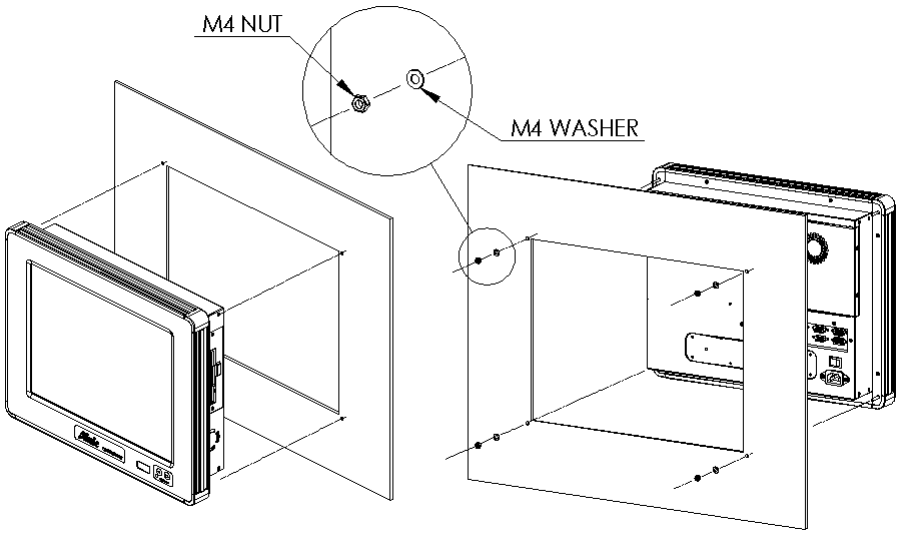




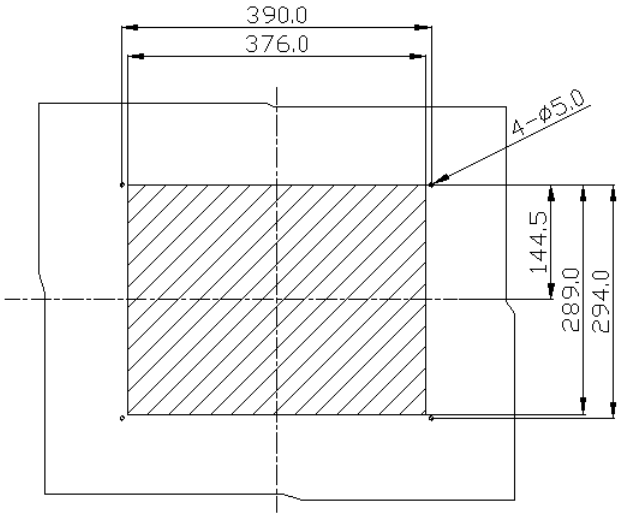

Max : 270°
Max : R500mm
Max : 180°
Max : 180°

F. Panel mounting

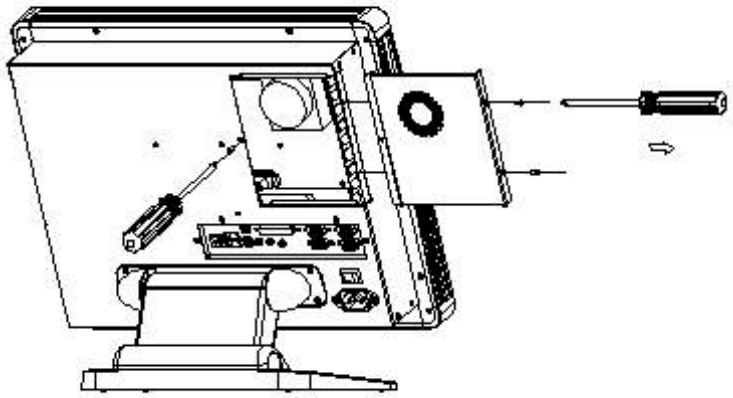




G. Cut out for Panel mounting



H. Remove speaker panel to upgrade CPU & RAM



I. CPU configuration

CPU core frequency = CPU frequency ratio (2~5.5)*External bus clock (66 or 100Mhz)

CPU FREQUENCY RATIO	SW1(4)	SW1(5)	SW1(6)
2X	ON	OFF	OFF
2.5X	ON	OFF	ON
3X	ON	ON	OFF
3.5X	ON	ON	ON
4X	OFF	OFF	OFF
4.5X	OFF	OFF	ON
5X	OFF	ON	OFF
* 5.5X	OFF	ON	ON

* Default

Note :

Most requency ratio of Celeron CPUs are pre-locked within the CPUs. These CPUs run at fixed speed (frequency) regardless of the configurations listed above.

If the CPU you are using requires higher ratio than 5.5X, it is most likely pre-locked.

J. DRAM installing

System Memory

The left edge of the Onyx-151 MAIN BOARD contains a socket for 168-pin dual inline memory module (DIMM). The socket uses 3.3 V unbuffered synchronous DRAM (SDRAM). DIMM is available in capacities of 16, 32, 64, or 128 MB. The socket can be filled in the DIMM of any size, giving your Onyx-151 MAIN BOARD between 16 and 128 MB of memory.

Supplementary information about DIMM

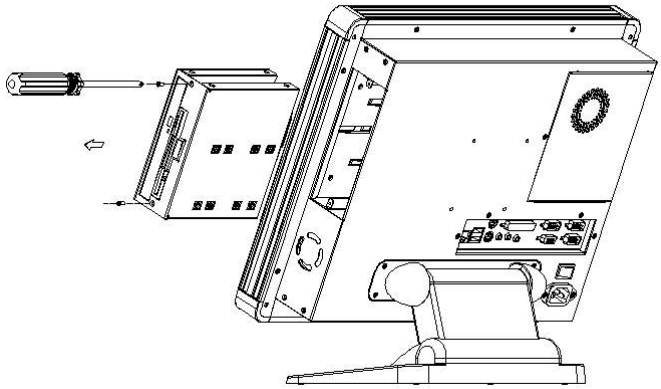
Your Onyx-151 MAIN BOARD can accept both regular and PC-100 SDRAM DIMM Module(with or without parity). However, if the Pentium II 350MHz or up CPU is used, The Onyx-151 MAIN BOARD can only accept PC-100 SDRAM DIMM Module. Single-sided modules are typically 16 or 64 MB; double-sided modules are usually 32 or 128 MB.

Memory Installation Procedures

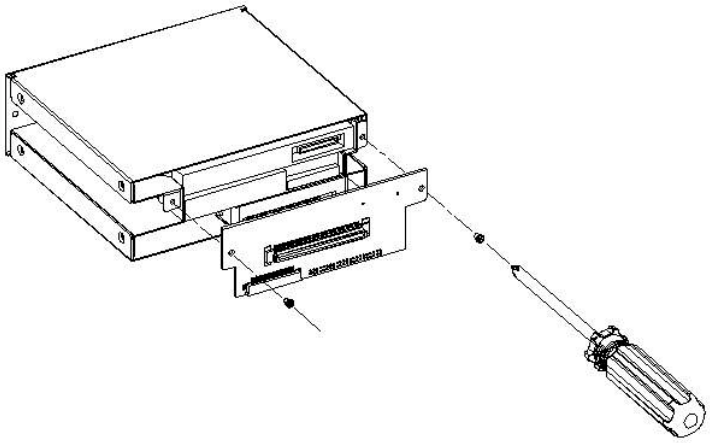
To install DIMM, first make sure the two handles of the DIMM socket are in the **open**" position. i.e. The handles remain outward. Slowly slide the DIMM module along the plastic guides on both ends of the socket. Then press the DIMM module right down into the socket, until you hear a click. This is when the two handles

K. HDD/CD-ROM/FDD installation

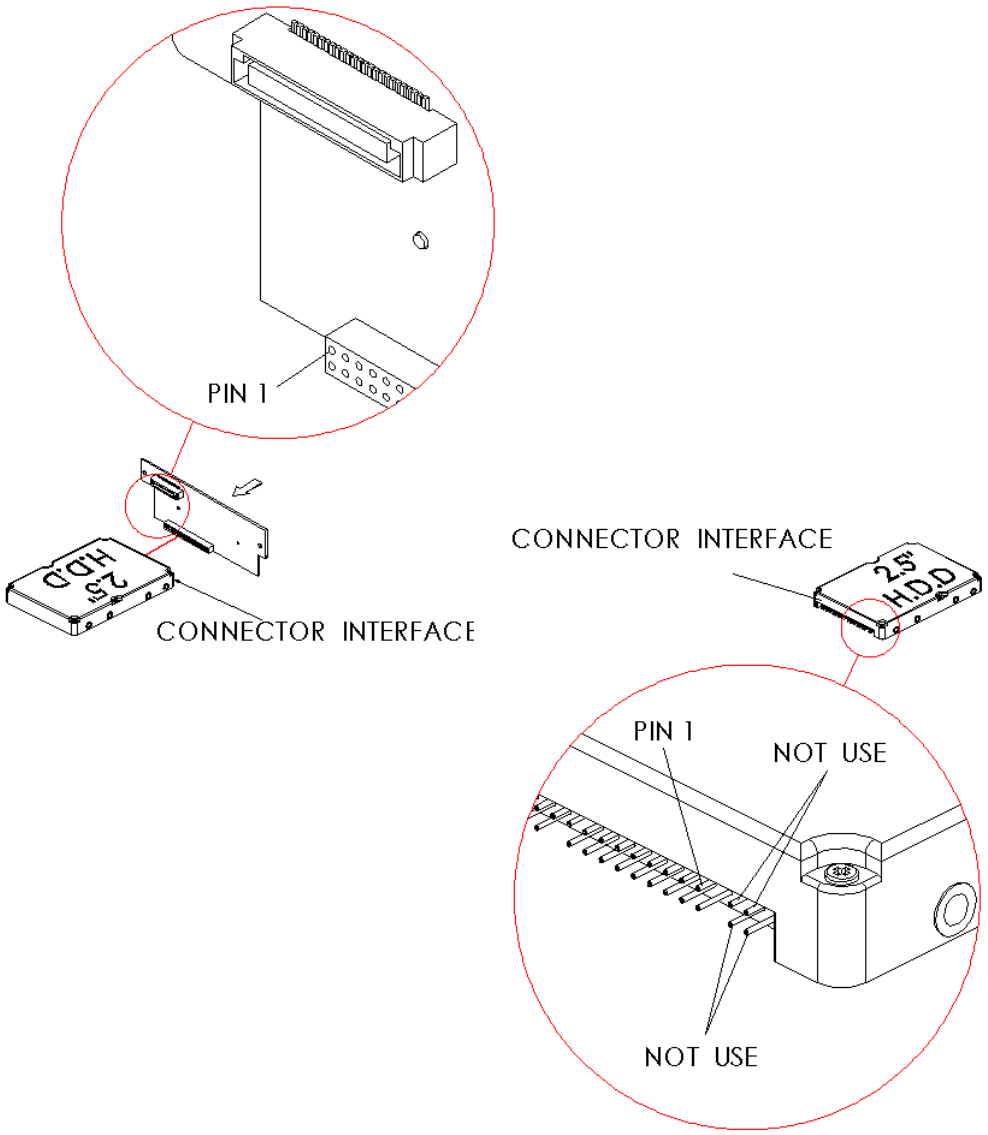
To remove the HDD/CD-ROM/FDD module



To remove the backplane from the module



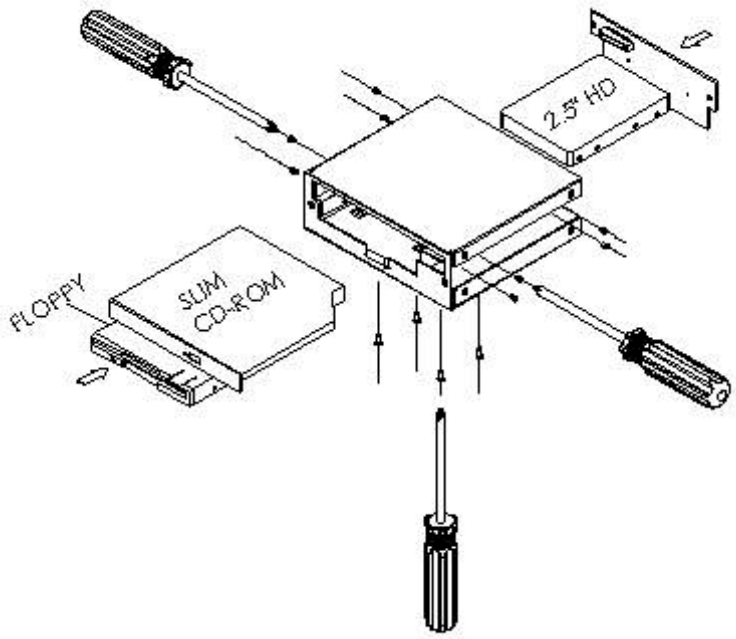
To install a 2.5 inches HDD



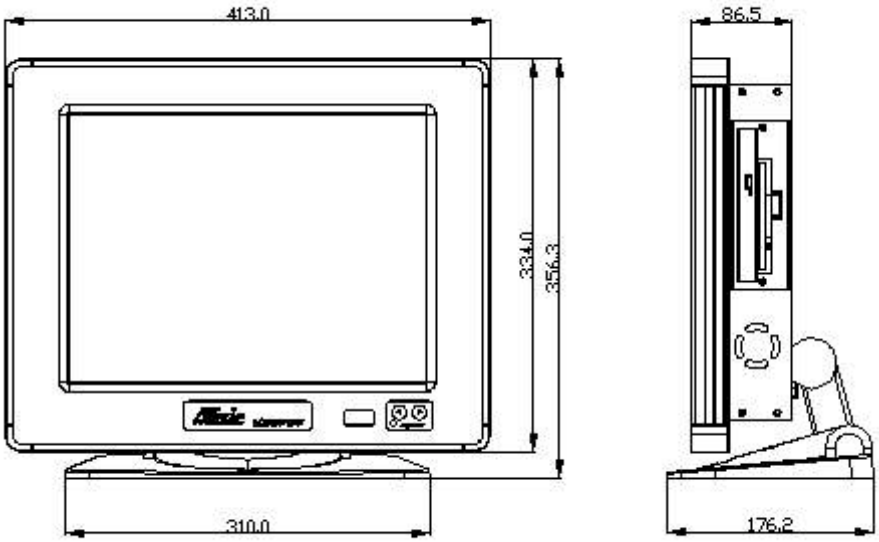
To secure HDD, FDD, CD-ROM

Note:

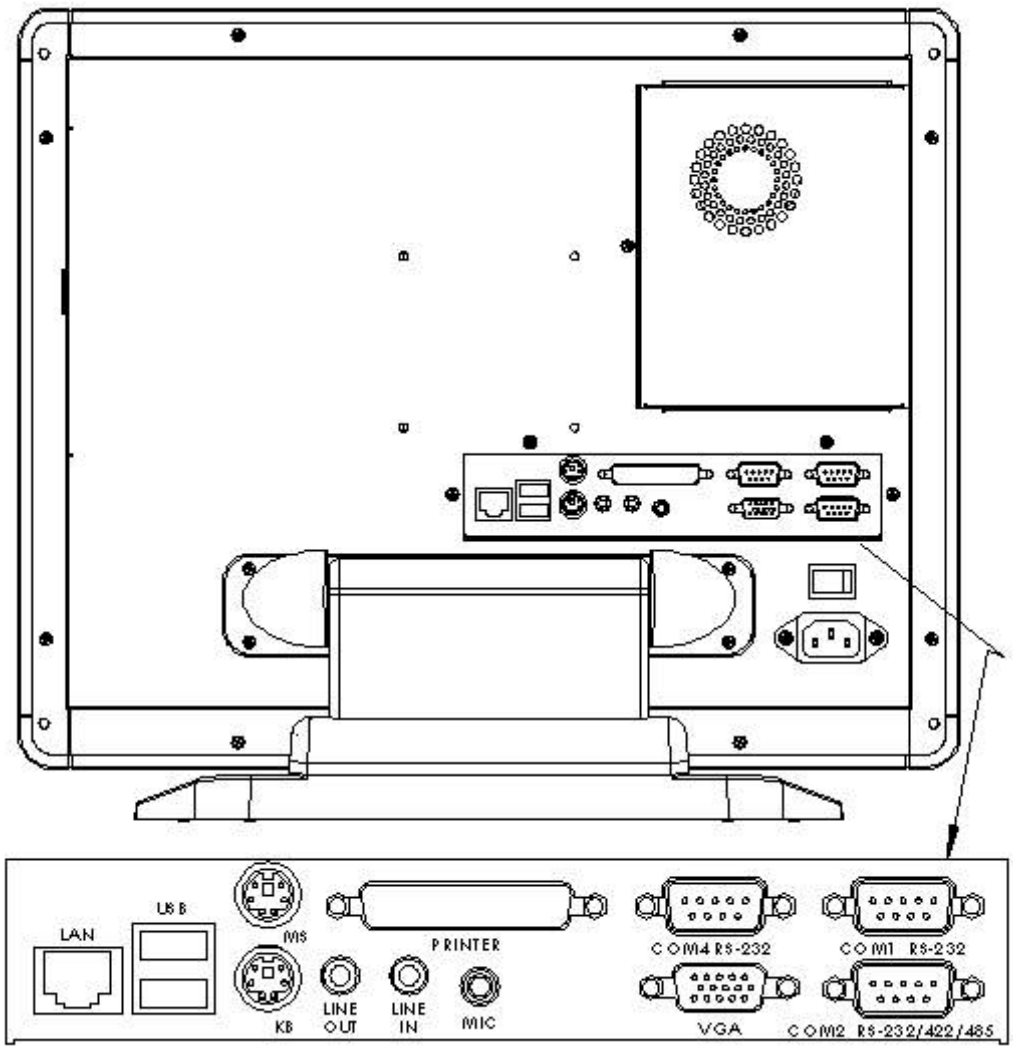
1. **FDD & CD-ROM should be intalled before HDD**
2. **HDD should always attach to the backplane first before sliding into the module**
3. **There should be a mylar at the bottom of the module to protect HDD from grounding. If not, please check with your supplier.**



L. Dimensions



M. I/O ports

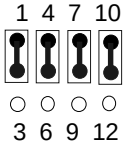
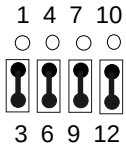
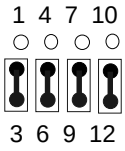
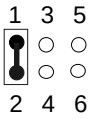
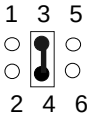
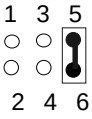

LAN
USB
MS
KB
PRINTER
LINE OUT
LINE IN
MIC
COM4 RS-232
COM1 RS-232
VGA
COM2 RS-232/422/485

N. COM2 RS-232/422/485 select (J10, J7)

COM2 RS-232/422/485 select (J10, J7)

The COM2 serial port can be selected as RS-232, RS-422, or RS-485 by setting J10 & J7.

COM2 Select (J10, J7)

	RS-232*	RS-422	RS-485
J10			
J7			

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