

ARP 640 User Reference Manual



SPECIFICATIONS

Model No	ARP640
Motherboard	Support Micro ATX Motherboard
Slots	Offer 4 full length expansion slots
Drive bay	Support 2x 3.5"
Display	17.3" FHD LCD display, 1920x 1080, LED backlight Anti-reflection tempered strengthen glass
VGA	AD conversion board, DVI interface (Option VGA)
KB/MS	Industrial multi-languages Keyboard/ touchpad Operating Life of Keys: 8 million cycles Keyboard Layout: CH, FR, GR, KR, RU, SP, UK, US
Power Supply	1U, 600W, 100~240VAC, Auto switch
Construction	Rugged Aluminum Construction with shock absorbing rubber corners
Speaker	Built-in amplified 2x 3W speakers
Dimension	412Wx 305Hx 226D mm
Weight	8 kgs
Carrying Case	Padded carrying case with wheels

ENVIRONMENTAL FACTORS

	Operating	Non-Operating
Temperature	0°C~50°C	-20°C~60°C
Relative Humidity	10%~90%	10%~95%
Approval	CE, FCC, RoHS	

OPTIONS

VGA Interface	
	<ul style="list-style-type: none"> • DVI Interface cable for DVI Graphic card
	<ul style="list-style-type: none"> • D-sub 15pin VGA interface cable
Touch Screen	
	<ul style="list-style-type: none"> • None
	<ul style="list-style-type: none"> • Touch Screen

Standard Accessory Kits

ARP 640			
Model	Accessory Kit SKD		Qty
ARP 640	1	ARP640 Portable Computer Chassis	1
	2	Carrying Case with wheels	1
	3	User's Manual	1
	4	Power Cord	1
	5	Anti-Static Bag	1
	6	Screw Pack (stabilizer)	1
	7	Stabilizer Supports Pack	1
	8		
	9		



Carrying Case with Wheels

1.0 Introduction

ARP 640 features:

- Rugged Construction with shock absorbing rubber corners
- Built-in 17.3" FHD LCD display, 1920x 1080, LED backlight
Anti-reflection tempered glass
- Designed for Micro ATX Motherboard
- Offer 4 full length slots expansion capability
- Industrial multi-languages keyboard with touchpad
- 1U 600W power supply, 100~240VAC
- Support 2x 3.5" drive bays
- Carrying case to manage portable PC with ease

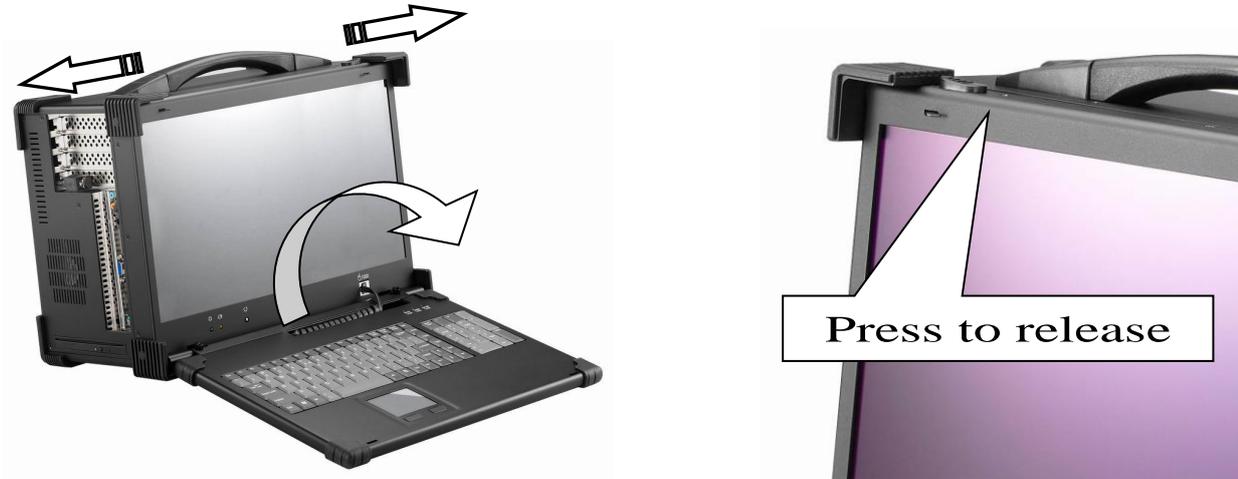
The ARP640 supports standard Micro ATX form factor motherboard in a compact lightweight form factor. The chassis has the flexibility to meet the need of your add-on cards configuration as well as processors choice. Whether it is ISA, PCI, PCI-X, PCI-E or combination of all of the above; the chassis can be fitted for 4 full length and height card slots. The chassis comes with integrated 17.3" 16:9 widescreen LED backlight LCD panel with 1920x1080 Full HD resolution. The display can accommodate the latest graphic card to provide fast refreshing video playback, editing and vast desktop space with wide angle viewing capability.

The chassis have 2x 3.5" drive bay; this allows the chassis to mount large amount of storage or special devices. There is also an integrated slim optical drive bay, and a combination keyboard touchpad that folds into the chassis and doubles as an additional protection for the display.

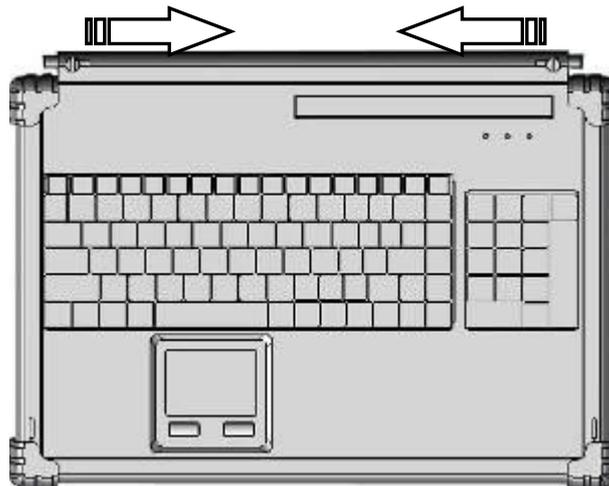
Applications: Military, Industrial automation, Digital TV test & analysis, Mobile Computing, Outdoor Computers, video conferencing, E-learning, Speech Technologies, Portable Workstation, Telemedicine, Multimedia, Mission Critical Computing

2.0 Operation

1. Releasing Keyboard from main unit by pushing the 2 taps located on top side of the chassis to release the locking mechanism, and then pull out the keyboard.



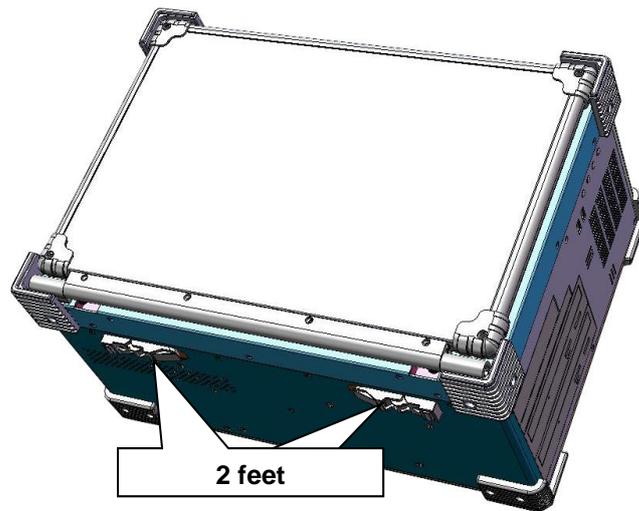
2. You have the option of leaving the keyboard attached to the chassis or they can be release independently from the chassis by pushing the two levers inward to release the lock.



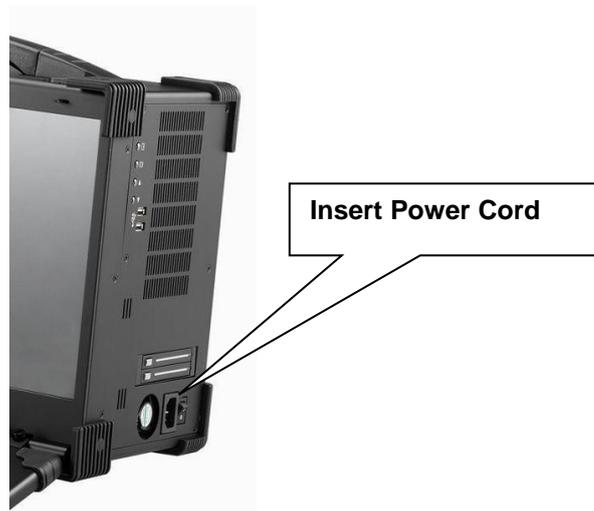
3. Connect the RJ-45 keyboard/touchpad cable to the front bottom right corner of the chassis. Make sure the pin direction is correct when inserting.



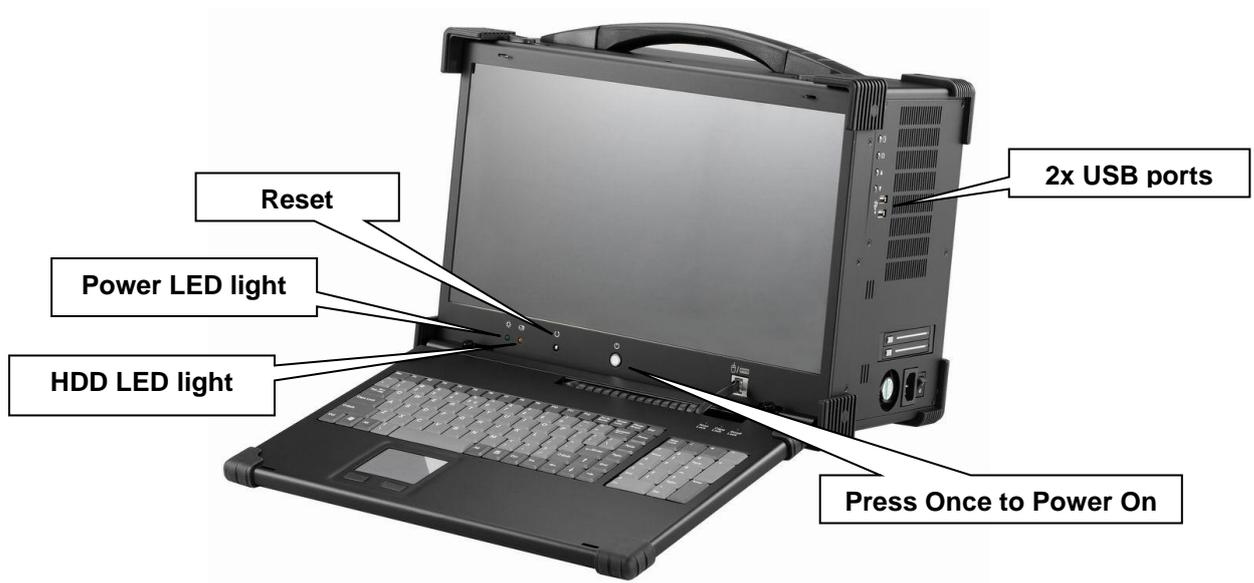
4. You can flip the 2 feet located underneath the chassis outward to help create an angle for the chassis for viewing comfort.



5. Connect the power cable outlet into the power supply unit



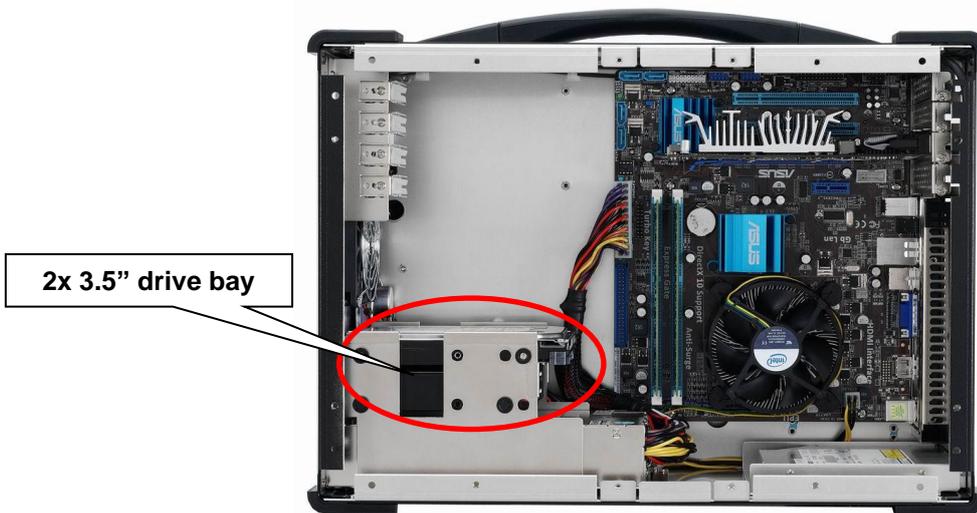
6. Press the power switch located on the front panel of the chassis to power up the unit. There have indicator LED lights for Power and HDD activity, and 2x USB ports



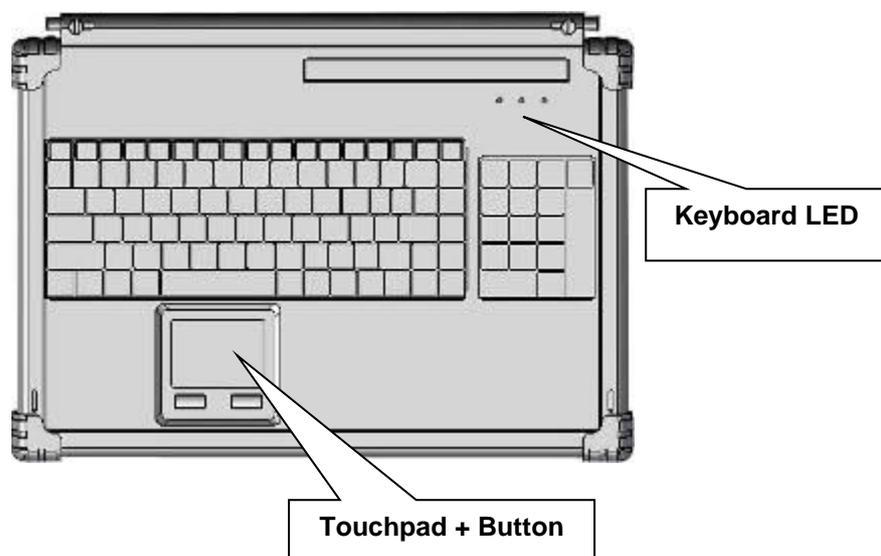
7. Access the 4 full-length expansion slots on the left side of the chassis.



8. ARP640 provides 2x 3.5", 1x slim drive bays



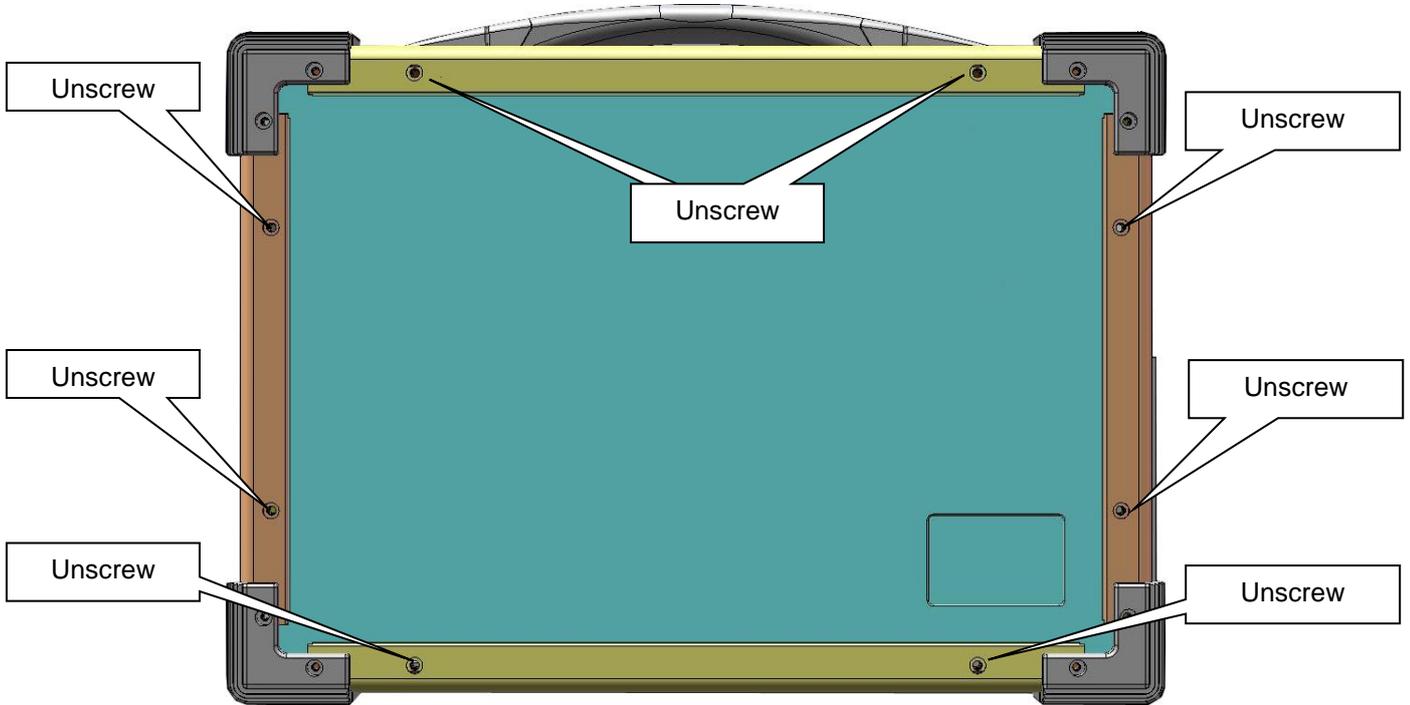
9. Full function keyboard and touchpad surface act as input for the system.



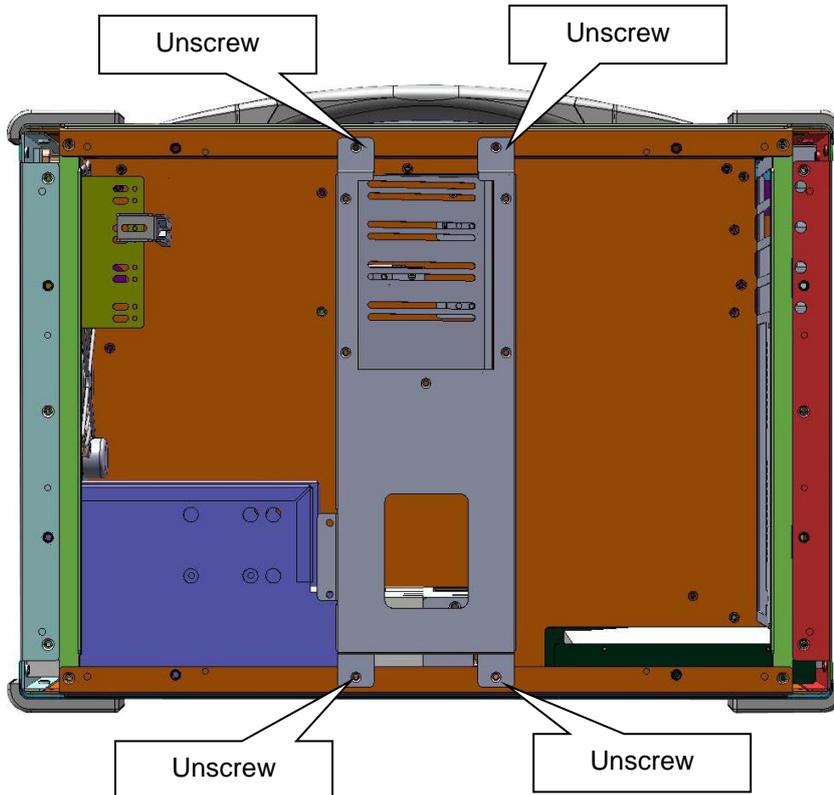
3.0 Internal Hardware Access

Be sure power cable is not connected to the system before proceeding

1. Open Back Cover

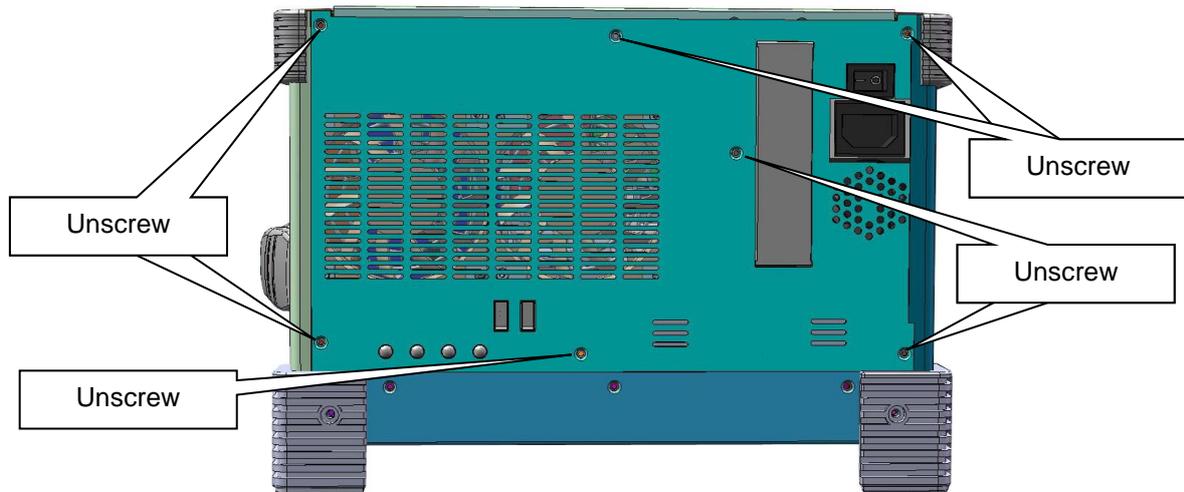


2. Remove the Card stabilizer bar

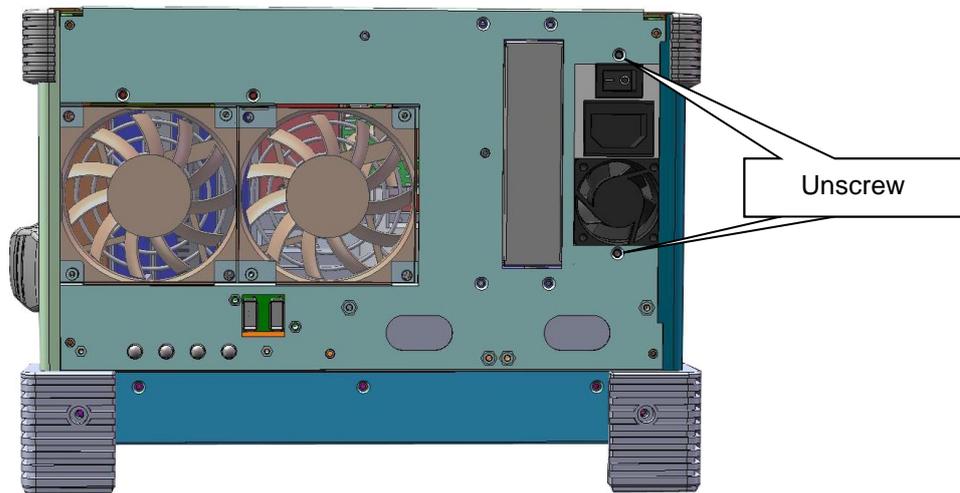


3. Remove The Power Supply

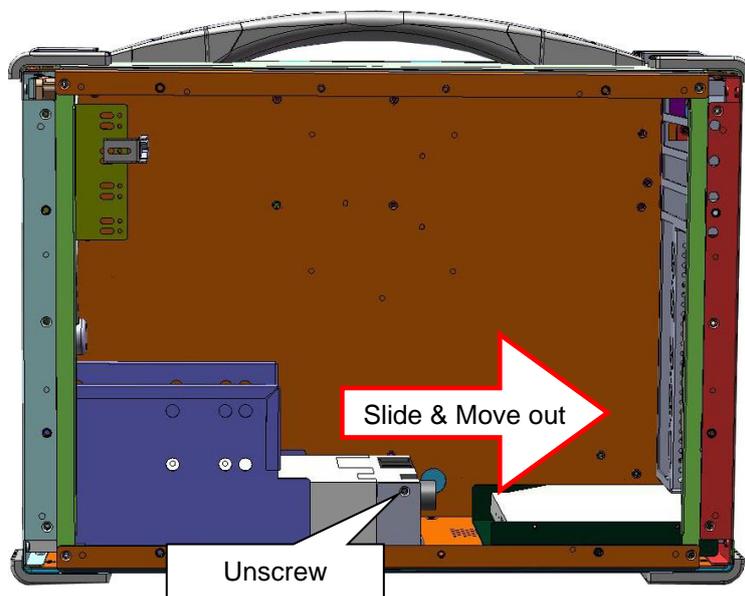
3.1 Remove the right-side cover



3.2 Release the right side screws

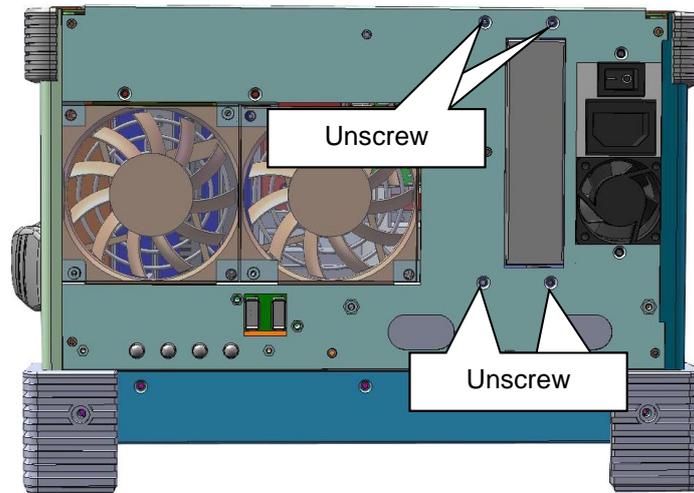


3.3 Release the screw and then Slide and move out the drive bay slowly

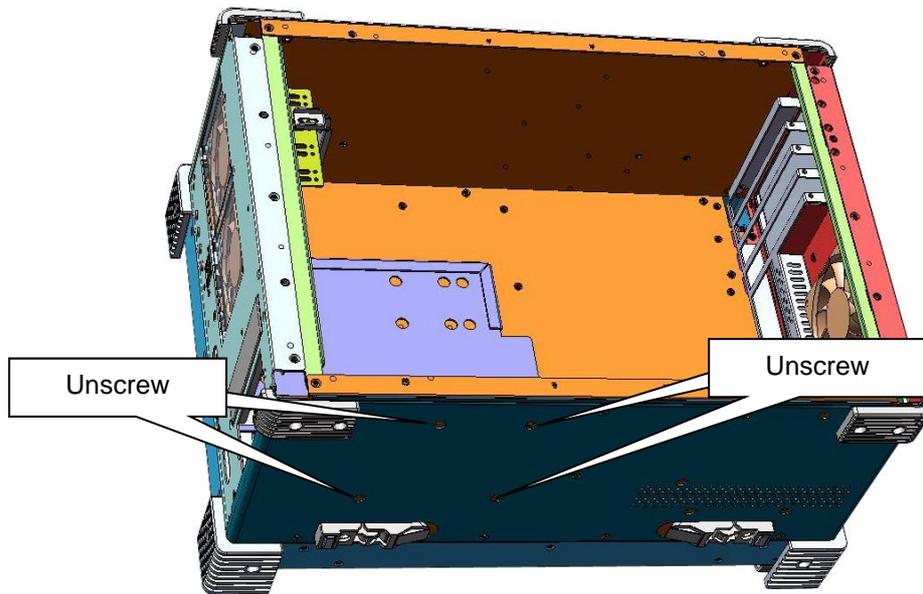


4. Remove The Drive Bay

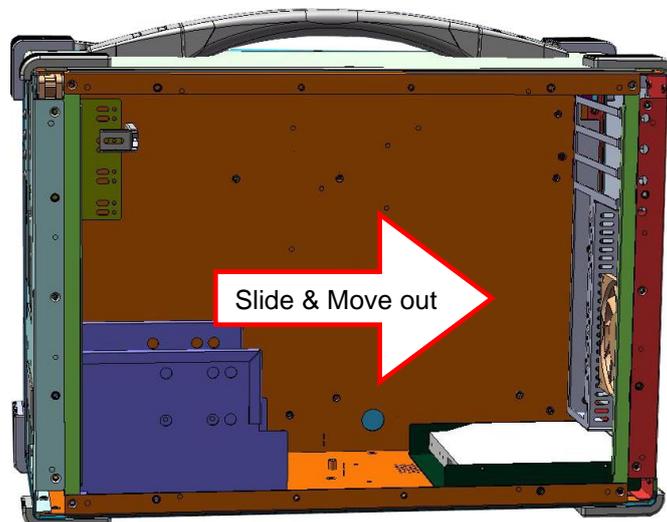
4.1 Release the right-side screws



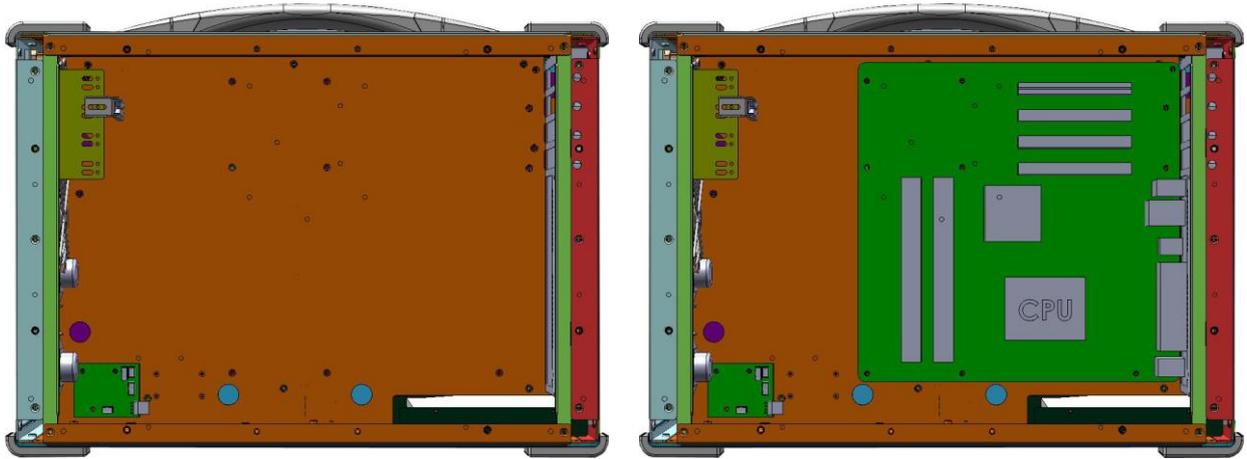
4.2 Release the bottom screws



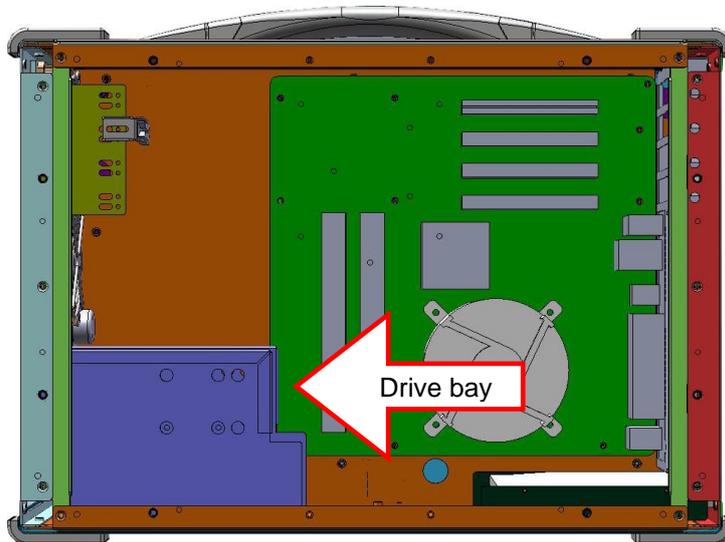
4.3 Slide and move out the drive bay



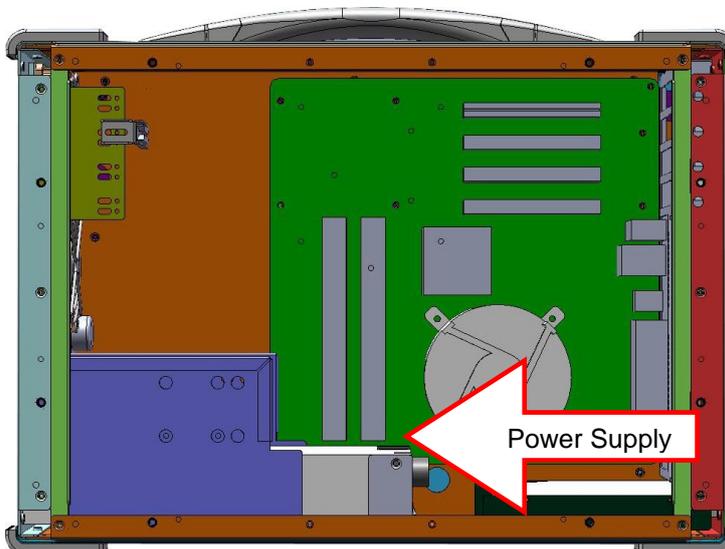
5. Install the proper stand-off matching the Micro ATX Motherboard into the chassis and correct I/O plate supplied by board manufacturer and secure it the motherboard onto chassis.



6. Install the drive bay into chassis

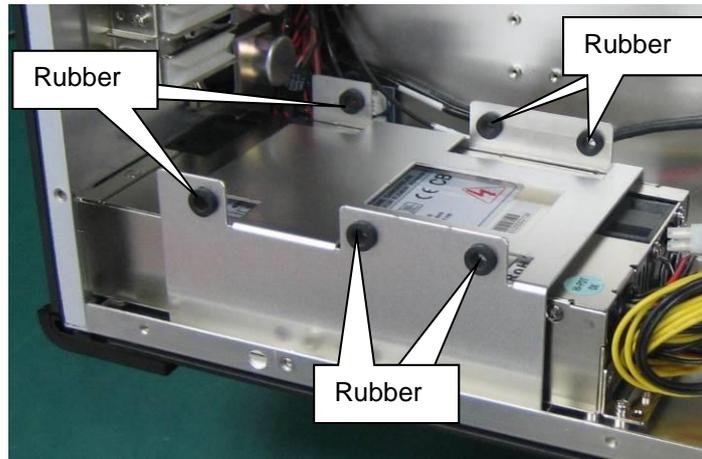


7. Install the power supply into chassis



8. Install the 3.5" device into drive bay housing

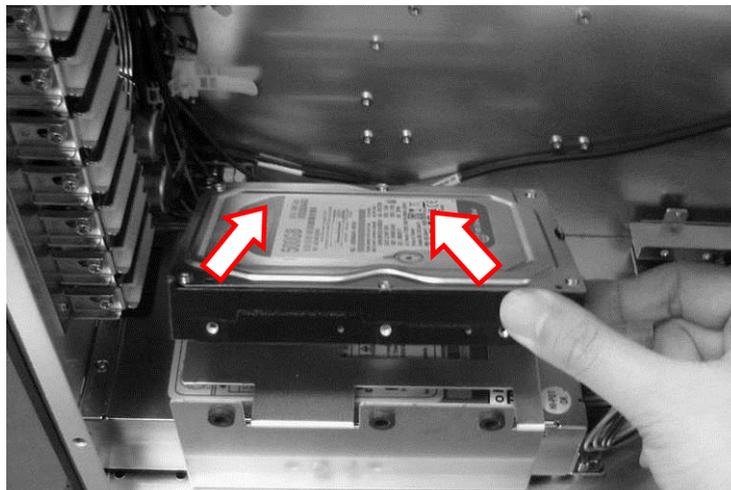
8.1 The internal 3.5" HDD can be installed by using the detachable drive tray. Install the corner shock absorbing rubber holder onto the tray.



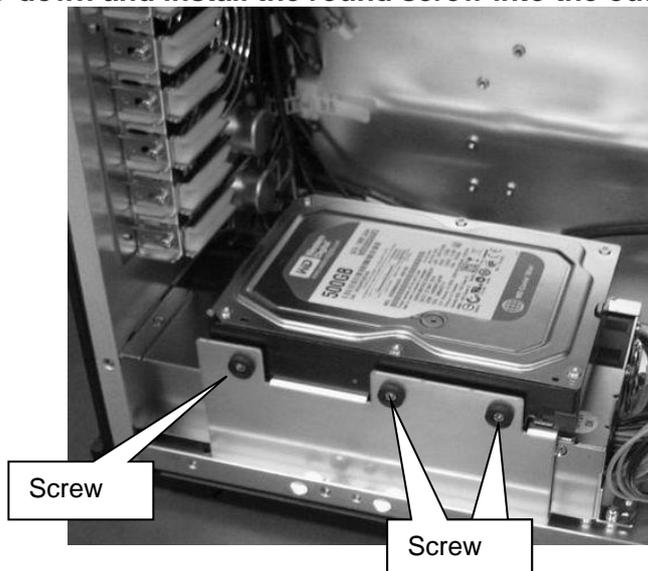
8.2 Fix the round screws onto 1 side (3 screws) of the HDD



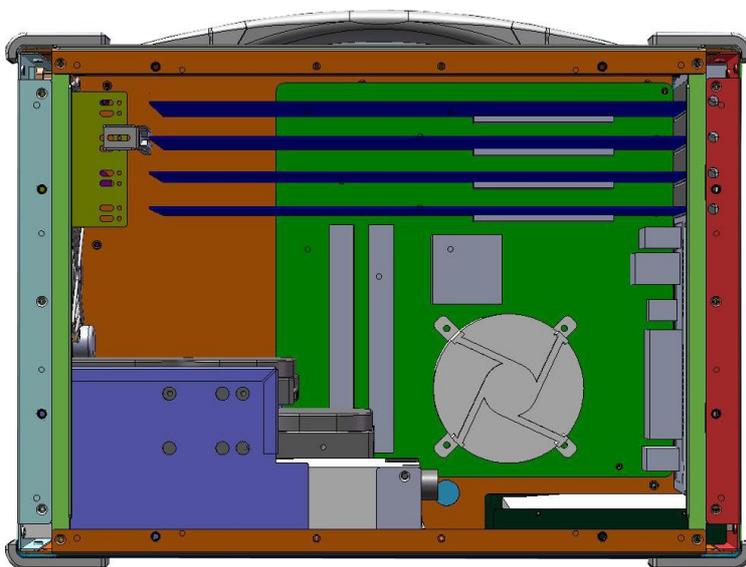
8.3 Slide in the side of HDD into the inner rubber holder.



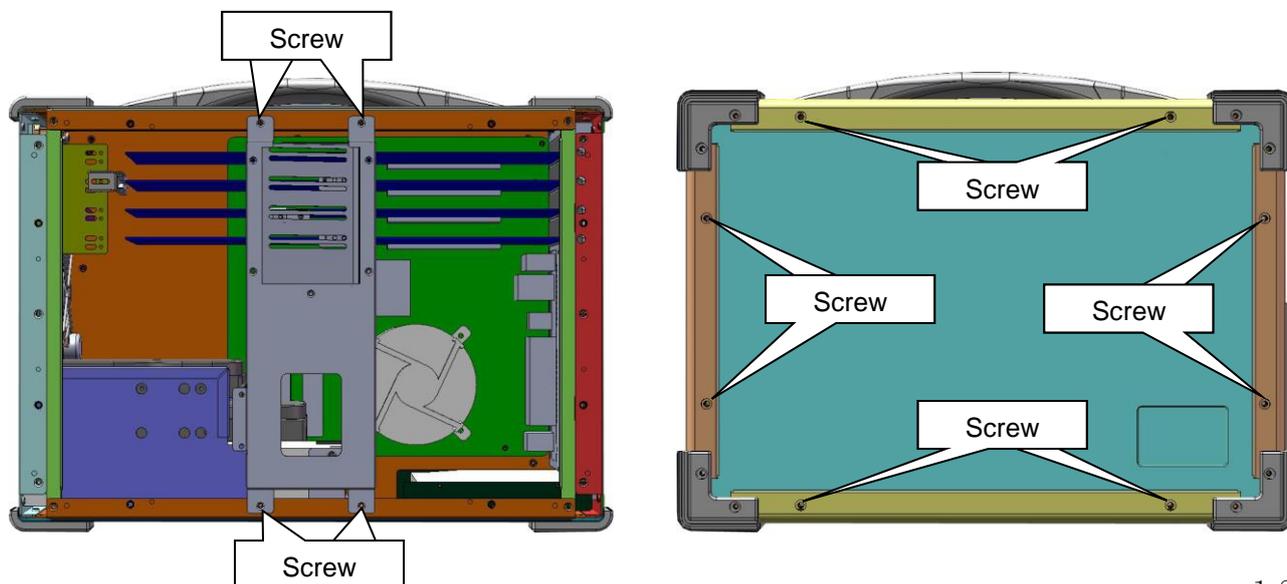
8.4 Push the HDD down and install the round screw into the outer side.



9. Install your add-in card on the available connection interface, and inserted completely and tight.



10. Remount the card stabilizer bar and put the rear cover back



4.0 Software Installation

You can use the built-in DVD-RW to load operating system and additional applications software into the system. Available medium from USB or download can also be possible.

DOS Boot up: DOS boot up requires you to have a version of the DOS installed on hard disk drive or floppy. Depending on the execution sequence you have set in the batch file, you will usually get a DOS prompt after loading.

Window Boot up: Windows boot up requires you to have Windows installed in the hard disk drive. During Windows boot up, you will see a sequence of access to your hard disk drive which will eventually take you into a graphical user interface environment.

Other O/S description: Many other operating systems are available in the market, such as Linux, Windows, Solaris and DOS. These operating systems will behave differently and you should react accordingly.

5.0 Troubleshooting

1. Installation problem:

1. Normally problem with a fail start up is due to installation problem.
2. Double check all the peripheral cards or items you have added to the ARP.
3. Are all the items seated properly?
4. Are all the cables connected back to its original or correct position?
5. Are the items you have added compatible?
6. Before you check for these, turn the computer off and unplug the power cord.
7. Check for 1 thru 5 and then re-power up the computer.
8. Remove all items that were added and re-try system power up.
9. If the system starts now, try inserting 1 new item in at a time and try powering up.
10. Repeat this step until you get the desired result.

2. BIOS Beep Code:

The BIOS beep code indicates error in system initialization. The BIOS of the system board will associate with video and memory error. Please check your video card is properly seated and your memory is installed properly.

3. System Fails to power up:

1. Check you power connection first.
2. Check the main power switch is in the ON positions (I) *If cold switch is available.
3. Press the power button located on the machine.

4. No display (LCD):

1. Check all the proper power up procedure has been taken.
2. Hook up an external LCD to the VGA port, to check if video is present.
3. If video is present on external LCD, check the internal LCD cable connection.
4. Or check your VGA setting to make sure LCD video is enabled.
5. If there is no video on external, check your system to make sure everything is seated properly.
6. If everything is seated properly and still no video, call us for further assistance.

5. External LCD no display:

1. Check to see if you have internal LCD video.
2. Check if your LCD is functioning properly.
3. Check your VGA setting to make sure external video is enabled.

6. Keyboard fails:

1. Make sure the keyboard plug is inserted completely into the portable.
2. Make sure you do not have another keyboard connected to the side I/O PS/2 port.

7. TOUCHPAD fails:

1. Make sure the keyboard plug is inserted completely into the portable.
2. If you have an external PS/2 mouse hook up on the side I/O PS/2 port, the touch pad will not function simultaneously.
3. If your operating system requires and does not load the mouse driver automatically, make sure you have the proper mouse driver loaded.