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COOL All YOUR LIFE

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Soprano

User's Manual



Soprano

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VB1000SNS & VB1000BNS >>>



Model	VB1000SNS	VB1000BNS
Case Type	Middle Tower	
Net Weight	9.6 kg	
Dimension (H*W*D)	495 x 210 x 478 mm	
Cooling System	◆Front (intake) : 120 x 120 x25 mm, 1400rpm, 21dBA ◆Rear (Exhaust) : 120 x 120 x25 mm, 1400rpm, 21dBA	
Drive Bays -Front Accessible -Internal	11 4 x 5.25", 2 x 3.5" 5 x 3.5"	
Material	Chassis : 0.8 mm SECC Front Door : Plastic	
color	Silver	Black
Expansion Slots	7	
Motherboards	Micro ATX (9.6" x 9.6"), ATX (12" x 9.6")	
Features	High efficiency ventilation: Dual 12cm silent fan in front & rear. Tool - Free installation for 5.25" & 3.5" device. Dual USB 2.0, IEEE 1394Firewire, Audio & Speaker ports Retractable foot stand. Highly flexible "Silent Purepower supply " unit supports PS/II for PC case (optional)	

VB1000SWS & VB1000BWS >>>



Model	VB1000SWS	VB1000BWS
Case Type	Middle Tower	
Net Weight	9.4 kg	
Dimension (H*W*D)	495 x 210 x 478 mm	
Cooling System	◆Front (intake) : 120 x 120 x25 mm, 1400rpm, 21dBA ◆Rear (Exhaust) : 120 x 120 x25 mm, 1400rpm, 21dBA ◆Side (intake) : 90 x 90 x 25mm, 1800rpm, 21dBA	
Drive Bays -Front Accessible -Internal	11 4 x 5.25", 2 x 3.5" 5 x 3.5"	
Material	Chassis : 0.8 mm SECC Front Door : Plastic	
color	Silver	Black
Expansion Slots	7	
Motherboards	Micro ATX (9.6" x 9.6"), ATX (12" x 9.6")	
Features	High efficiency ventilation: Dual 12cm silent fan in front & rear, 9cm fan on side panel. Tool - Free installation for 5.25" & 3.5" device. Dual USB 2.0, IEEE 1394Firewire, Audio & Speaker ports Retractable foot stand. Highly flexible "Silent Purepower supply " unit supports PS/II for PC case (optional)	

Chapter2 Case Mechanical Operation

2.1 How to open the side panel

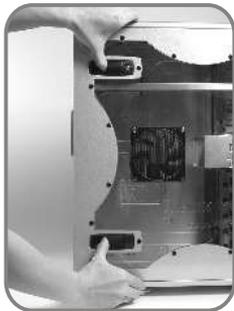
- 1 To find out the side panel key from the back side of the case then open it as the picture..



- 2 Make sure the side panel lock is opened.



- 3 Push the button then swing out the side panel.



2.2 Lock Operation



Insert the provided key and **turn it anticlockwise.**

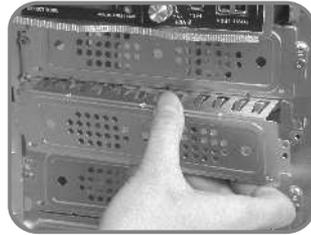


Turn it anticlockwise 90° to open the front door.

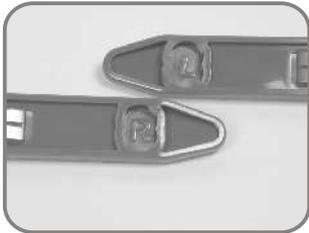
Turn it anticlockwise 180° to open the whole front panel.

2.3 Installing 5.25" Device

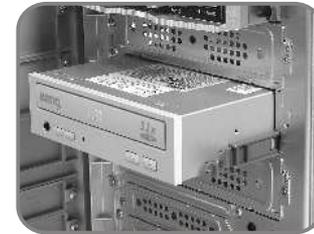
Unscrew the 5.25" drive bay metal cover.



To find out the drive bay rail from enclosed box. Please note the difference between the right (R) & left (L) rails.

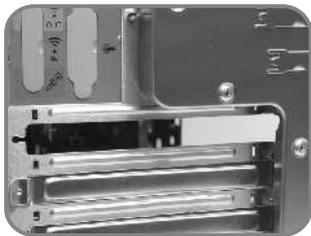
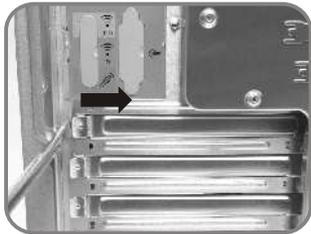


Insert the railed device into the 5.25" drive bay then slide it along the fixed-positioning rack inside the 5.25" cage.



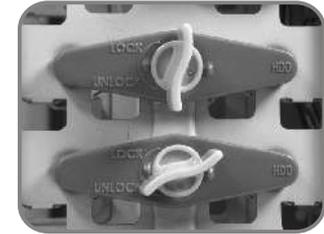
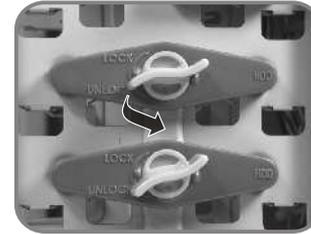
2.4 PCI slot tool-free function operation

Open the plastic clip then take off the PCI bracket as follow.

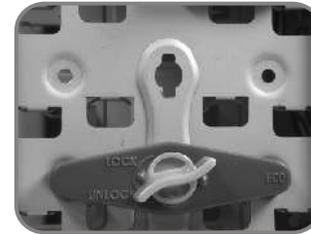


2.5 Installing 3.5 HDD

Turn lock device counter-clockwise to unlock.



Remove lock device.



Insert HDD and place on lock device.
Turn lock device clockwise to secure the HDD.



2.6 Installing 3.5" device

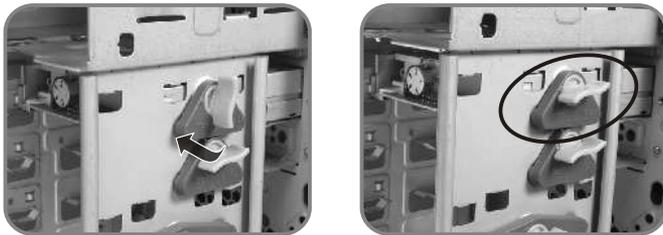
Turn lock device counter-clockwise to unlock.



Remove lock device and insert drive from the front of the chassis.



Insert lock device and turn clockwise to secure the drive.



2.7 Fan Filter Removal and Cleaning

Front-Fan Filters

- 1 Firstly, open up the whole front panel & door.



- 2 Take off the Fan Grille, then the filter can be removed.



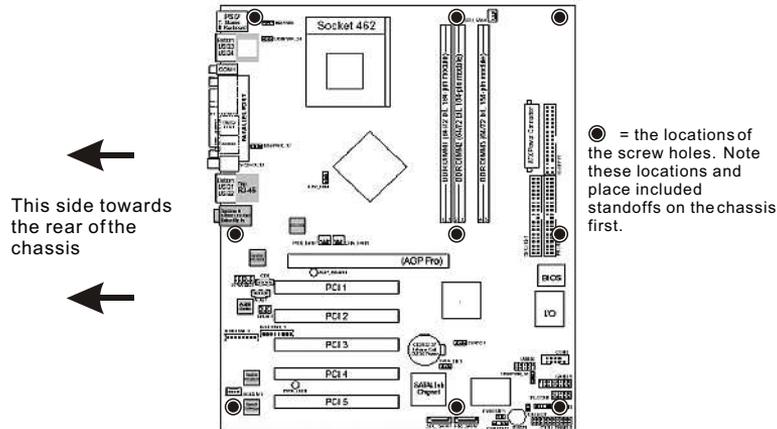
Chapter3 Motherboard & Leads Installation

3.1 Motherboard Installation

Each motherboard has different standoff layout. It is highly suggested that you refer to your motherboard's manual when installing motherboard into the Case. The cases are applicable with Standard ATX, MicroATX, Dual processor Form Factor motherboards. Your motherboard may require a special I/O Panel, which should be included with your motherboard.

Placement Direction:

When installing the motherboard, make sure you follow the direction provided by your motherboard manufacturer. On most standard motherboards, the edge with external ports goes to the rear part of the chassis. It is highly recommended that you install CPU, heat sink and modular components before fixing the motherboard inside the chassis.



Above illustration is a sample of what the motherboard's layout. For more detail screw hole placement, please refer to your motherboard manual.

3.2 Case LED connections

On the front of the case, you can find some LEDs and switch leads (POWER SW*1, POWERLED*1, H.D.D. LED*1, RESET SW*1, SPEAKER*1).

Please consult user manual of your motherboard manufacturer, then connect these leads to the panel header on the motherboard. These leads are usually labeled; if not, please trace them back to the case front to find out their source.

- **POWER LED** connects to your M/B at the PLED
- **POWER SW** connects to the PWR connector on the motherboard.
- **H.D.D LED** connects to the 2-pin labeled HDD LED connector.
- **RESET SW** connects to the RSW connector on the motherboard,
- **SPEAKER** connector: find out the 4-pin labeled SPEAKER on the M/B then connect it.



3.3 USB2.0 & IEEE1394 Firewire connection

USB connection

Please consult your motherboard manual to find out the section of "USB connection".

USB2.0 connection				
M/B layout (Ex: ASUS)		Case layout		
1	USB+5V	VCC 1	Red	USB 1
2	LDM1	DATA-1	White	
3	LDP1	DATA+1	Green	
4	GND	GND 1	Black	
5	NC	SHIELD 1	Black	
6	USB+5V	VCC 2	Red	USB 2
7	LDM2	DATA-2	White	
8	LDP2	DATA+2	Green	
9	GND	GND 2	Black	
10	--	SHIELD 2	Black	

IEEE1394 Firewire connection

Please consult your motherboard manual to find out the section of "IEEE1394 Firewire connection".

1394 Firewire connection			
M/B layout (Ex: ASUS)		Case layout	
1	+12V	VP	White
2	Ground	VG	Black
3	TPB-	TPB- or TPB*	Red
4	TPB+	TPB+ or TPB	Green
5	TPA-	TPA- or TPA*	Orange
6	TPA+	TPA+ or TPA	Blue
7	Ground	Ground	Black

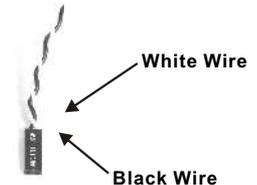
3.4 Ear & MIC connections

Please consult your motherboard manual to find out the section of "front panel audio connector".

Ear & Mic connection			
M/B layout (Ex: ASUS)		Case layout	
1	LINE_OUT R	EAR R	Red
2	LINE_IN R	Return R	White
3	LINE_OUT L	EAR L	Green
4	LINE_IN L	Return L	Yellow
5	MIC	MIC IN	Orange
6	MIC PWR	MIC VCC or MICBIAS	Blue
7	Ground	Ground	Black

3.5 Case open alarm function

- 1 To find out the cable with 2pin connector ("Micro SW") from the rear of inside the chassis.
- 2 To find out the position of Chassis Alarm on your motherboard. (please consult your motherboard manual)



Chapter4 Other

4.1 Purepower™ power supply (optional)

The Thermaltake Silent™ Purepower specification meets Intel Pentium 4 and AMD K7; it offers plenty of functions, which mainly include:

1. Automatic Fan Speed Control: The Silent Purepower™ power supply can detect the inside heat and automatically adjust the fan speed to provide adequate airflow.

2. Ultra Silent: Ball bearing fans with high reliability and super low acoustic noise under all load condition.

The functions can assure the Silent Purepower™ meet the balance in noise control and heat exhausted. The Silent Purepower™ provides complete protection function as follow:

1. Over thermal protection at 100°C-105°C
2. Short circuit protection on all output.
3. Over voltage protection / Under voltage protection.
4. Over current protection.

Besides, Thermaltake enables the quality assurance of the Silent Purepower™: 100% Hi-POT and ATE Function Test, 100% Burn-In and AC Input cycled on/off under high temperature condition. Furthermore, it has been approved by **UL, CSA, TUV, VDE, NODIC, CB, FCC, CE, CNS.**



There are three main products of Thermaltake PSU, it is divided into standard, VR and specialty power supply unit. Please refer to <http://www.thermaltake.com/purepower/main.htm>