



Atlas Quiet Mini Server Case

User's Manual

Manuel de l'utilisateur

Anwenderhandbuch

Manuale per l'operatore

Manual del usuario

取扱説明書

At Antec, we continually refine and improve our products to ensure the highest quality. So it's possible that your new case may differ slightly from the descriptions in this manual. This isn't a problem; it's simply an improvement. As of the date of publication, all features, descriptions, and illustrations in this manual are correct.

Disclaimer

This manual is intended only as a guide for Antec's Computer Enclosures. For more comprehensive instructions on installing the motherboard and peripherals, please refer to the user's manuals which come with the components and drives.

Atlas User's Manual

Atlas – Quiet Mini Server Case

This case comes with a 550 Watt EPS12V power supply. Turn the switch to the ON (I) position before you boot up the computer for the first time. Normally, you won't need to switch to the OFF (O) position, since the power supply includes a soft on/off feature which lets you turn the computer on and off by using the soft switch on the computer case. If the computer crashes and you can't shut it down using the soft switch, you can switch the main power to the OFF (O) position to clear the fault, then reboot.

Only for models designed for sale in the European Union:

Antec power supply models feature Power Factor Correction (PFC) circuitry in accordance with European standard regulation code EN61000-3-2. By altering the input current wave shape, PFC improves the power factor of the power supply. This results in increased energy efficiency, reduced heat loss, prolonged life for power distribution and consumption equipment, and improved output voltage stability. Together with the high efficiency design and the quiet 80mm fan, the power supply delivers a cleaner and quieter operating environment.

Setting Up

1. Place the case upright on a flat, stable surface.
2. **Note (not applicable to models designed for the European Union):** Before installation, check the red voltage switch setting on the power supply. It should match your local voltage (115V for North America, Japan, etc. and 230V for Europe and many other countries). If it doesn't match, please change the setting. If you don't you could damage your equipment and void your warranty.
3. Loosen the thumbscrews from the right side panel. Remove it by swinging it out. **Note: Don't use your fingernails to pry or lift the panels.**
4. Inside the case you should see the power supply, some wiring with marked connectors (USB, PWR etc.), and installed I/O panel, a power cord and a plastic bag containing more hardware (screws, brass standoffs, plastic stands, etc.), and six drive rails.
5. There are three plastic tabs on the left side of the bezel. They fasten the front bezel to the metal chassis. Release the tabs from the top down to release the bezel.

- Swing the bezel open to about 45° and gently lift the bezel up. The front bezel will come off easily. Set the bezel aside in a safe place

Installing the Motherboard

This manual does not cover CPU, RAM, or expansion card installation.

Please consult the motherboard manual for specific mounting instructions and troubleshooting.

- Lay the case down, with the open side facing up. The drive cages and power supply should be visible.
- Make sure you have the correct I/O panel for the motherboard. If the panel provided with the case isn't suitable, please contact the motherboard manufacturer for the correct I/O panel.
- Line up the motherboard with the standoff holes, and remember which holes are lined up. Not all motherboards will match with all the provided holes; this is normal, and won't affect functionality.
- Remove the motherboard.
- Screw the brass standoffs into the threaded holes that line up with the motherboard. Do not overtighten the standoffs. Some standoffs may be pre-installed for your convenience.
- Place the motherboard on the brass standoffs.
- Screw in the motherboard to the standoffs with the provided Philips-head screws. The motherboard is now installed.

Connecting the Power and LED

This case has an Antec TruePower 2.0 (TP2-550EPS12V) power supply which is EPS12V compatible and comes with a configurable 24-pin Main Power Connector, an 8-pin +12V, and a 4-pin +12V Power Connector for the motherboard. It also includes four SATA connectors, five to seven 4-pin peripheral power connectors, one to two 4-pin Floppy Drive power connectors, and one PCI Express graphic card power connector.

- Connect the 24-pin Main Power Connector and the 4-pin +12V or 8-pin +12V connector to your motherboard as needed. If your motherboard uses a 20-pin connector, detach the 4-pin attachment on the 24-pin power connector (see pictures 1 and 2). Connect the peripheral power connectors to devices such as hard drives, optical drives, etc.
- Connect the Reset switch (labeled RESET SW) to the motherboard at the RST connector. Make sure the label always faces the front of the case.
- Power LED (labeled POWER LED) connector is located behind the Reset connector.
- Power Switch (labeled POWER SW) connects to the PWR connector on the motherboard.
- Hard Drive LED (labeled H.D.D. LED) connects to the IDE connector.

Picture 1



For 24-pin motherboards

Picture 2



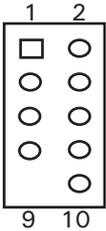
For 20-pin motherboards

Connecting the USB Ports

You will find a single 10-pin connector on a cable attached to the front USB ports. This is an Intel standard connector, which is keyed so that it can't be accidentally, reversed when connected to a proper Intel standard motherboard header. Connect the 10-pin connector to the motherboard headers so that the blocked pin fits over the missing header pin.

Note: Please check the motherboard manual for the USB header pin layout and make sure it matches the attached table. If it does not match this Intel standard, please call Antec customer service at (800) 22ANTEC (North America) or +31 (0) 10462-2060 Europe) to buy a USB adapter. This adapter will allow you to connect the front USB to the motherboard on a pin-by-pin basis.

Motherboard Pin Layout



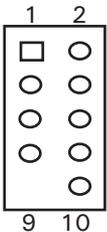
Pin	Signal Names	Pin	Signal Names
1	USB Power 1	2	USB Power 2
3	Negative Signal 1	4	Negative Signal 2
5	Positive Signal 1	6	Positive Signal 2
7	Ground 1	8	Ground 2
9	Key (No Connection)	10	Empty Pin

Connecting the IEEE 1394 (FireWire®, i.Link®) Port

You will find a single 10-pin connector on a cable attached to the front IEEE 1394 connection. This is an Intel standard connector, which is keyed so that it can't be accidentally reversed when connected to a proper Intel standard motherboard header. Connect the 10-pin connector to the motherboard header so that the blocked pin fits over the missing header pin.

Note: Please check the motherboard manual for your IEEE 1394 header pin layout and make sure it matches the attached table. If you intend to connect the front FireWire port to an IEEE 1394 add-on card that comes with an external-type IEEE 1394 connector, please call Antec customer service at (800) 22ANTEC (North America) or +31 (0) 10 462-2060 (Europe) to buy an adapter. This adapter will allow you to connect the front IEEE 1394 port to the external-type connector.

Pin Assignment for Front Panel IEEE 1394 Connector



Pin	Signal Names	Pin	Signal Names
1	TPA +	2	TPA-
3	Ground	4	Ground
5	TPB +	6	TPB-
7	+ 12V (Fused)	8	+ 12V (Fused)
9	Key (No Pin)	10	Ground

Connecting the Audio Ports

There is an Intel standard 10-pin connector (that has 7 individual wires with connectors) leading to the front panel speaker and microphone connection. If the motherboard supports Intel's standard onboard audio connector, you can plug the 10-pin connector directly onto the board. For non-Intel standard audio connection, you will need to plug the 7 individual connectors to the motherboard. See the following instructions:

Locate the internal audio connectors from the motherboard or sound card. Consult the motherboard or sound card manual for the pin-out positions.

1. Microphone Signal Pin: Connect the MIC connector to this pin.
2. Microphone Power: Connect the MIC-BIAS connector to this pin.
3. Ground Pin: Connect the AUD GND connector to this pin.
4. Front Right Speaker Out Pin: Connect the FPOUT-R connector to this pin.
5. Front Left Speaker Out Pin: Connect the FPOUT-L connector to this pin.
6. Rear Right Speaker Out Pin: Connect the RET-R connector to this pin.
7. Rear Left Speaker Out Pin: Connect RET-L connector to this pin.

Hard Disk Installation

There is a hard disk cage right under the external 5.25" drive. You can mount four hard drives using the trays inside it.

1. Open the front bezel as described in Setting Up section.
2. Loosen the two thumbscrews. Swing open the fan cage and gently lift the cage upward to remove it. You will see four drive trays with soft silicon grommets inside the cage.
3. Squeeze the metal clips on each side of the tray and slide the tray out.
4. Mount your hard drive into the drive tray through the bottom rubber grommets with the special screws provided. **Note:** Don't over-tighten the screws. Over-tightening the screws will reduce the vibration and noise-dampening ability of the rubber grommets.
5. Slide and lock the tray back into the case.
6. Find a 4-pin molex connector on the power supply and connect it to the male 4-pin connector on the device.
7. Repeat the same procedure for the other devices as necessary.
8. Put the front fan cage back to the case. If you plan to mount the optional 92mm case fans, do it now. See The Cooling section for fan installation.

5.25" Device Installation

There are four external 5.25" drive bays (one with 5.25" to 3.5" Adapter). Carefully remove the metal plate covering the drive bay.

1. Take two plastic drive rails and mount them to the sides of the 5.25" device. Make sure to use the front set of the screw holes on the drive rail. Also make sure the end of the drive rail is angled away from the device and facing forward.
2. Slide the device into the drive bay until you hear a click.
3. Mount the other devices accordingly.
4. Connect a large 4-pin connector from the power supply to the male 4-pin connector on each of the devices.

To install a floppy or other external 3.5" device to the 5.25" to 3.5" Adapter:

1. Slide the Adapter out.
2. Place the drive to the adapter and fasten the drive with screws provided.
3. Find a 4-pin floppy power connector on the power supply and connect it to the male 4-pin connector on the devices.

Cooling System

The TriCool™ fan:

The case includes one 120mm TriCool™ fan installed in the rear. This fan has a three-speed switch that lets you choose between quiet, performance, or maximum cooling. (See specifications below.) The fan is installed so that the air is blowing out of the case. Connect a large 4-pin connector from the power supply to the male 4-pin connector on the fan.

Note: The minimum voltage to start the fan is 5V. We recommend that our users set the fan speed to High if you choose to connect the fan to a fan control device or to the Fan-Only connector found on some of Antec's power supplies. A fan-control-device regulates the fan speed by varying the voltage to it. The voltage may start as low as 4.5V to 5V. Connecting a TriCool™ set on Medium or Low to a fan-control device may result in the fan not being able to start. The already lowered voltage from the fan control device will be further reduced by the TriCool™ circuitry below 5V.

Specifications:

Size: 120mm x 120mm x 25.4mm

Rated Voltage: DC 12V

Operating Voltage: 10.2V ~ 13.8V

Speed	Input Current	Air Flow	Static Pressure	Acoustical Noise	Input Power
High 2000 RPM	0.24A (Max.)	2.24 m ³ / min (79 CFM)	2.54 mm-H ₂ O (0.10 inch-H ₂ O)	30 dBA	2.9 W
Medium 1600 RPM	0.2A	1.59 m ³ / min (56 CFM)	1.53 mm-H ₂ O (0.06 inch-H ₂ O)	28 dBA	2.4 W
Low 1200 RPM	0.13A	1.1 m ³ / min (39 CFM)	0.92 mm-H ₂ O (0.04 inch-H ₂ O)	25 dBA	1.6 W

The Front 92mm fans

You can install two 92mm fans to the fan cage in front of the internal 3.5" drives. These fans must be installed so that the air is blowing into the case. We recommend using Antec 92mm TriCool™ fans to balance quiet performance with maximum cooling. See our web site for product information. **Note:** Please choose your fan speed wisely. In most cases, a medium or even low speed setting will be enough to supply adequate cooling.

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