

# EX-3350

## Serial ATA to Parallel ATA Adapter

### 1. Introduction

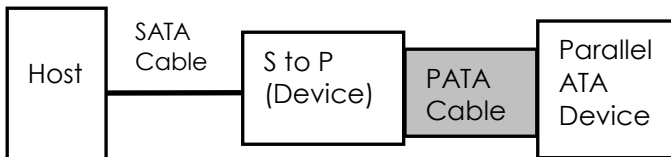
Thank you for purchasing the Serial ATA to Parallel ATA adapter. This adapter is designed to adapt a parallel device to a serial host controller. Because the Serial ATA architecture changes the physical interface layer only, it maintains register compatibility and software compatibility with parallel ATA. No device driver changes are necessary and the Serial ATA architecture is transparent to the BIOS and the operating system.

#### Features:

- ✓ Converts SATA Host to Parallel ATA hard drive
- ✓ Supports Serial ATA Rate up to 1.5Gb/s
- ✓ Eliminates Parallel ATA Cable Issues
- ✓ Supports Cable Length 1m or longer
- ✓ Improves Data Robustness of Parallel ATA
- ✓ Supports Hot Plug Features
- ✓ Transparent to BIOS or OS, no driver is necessary
- ✓ Compact Size, Easy to fit different Applications



### 2. Block Diagram

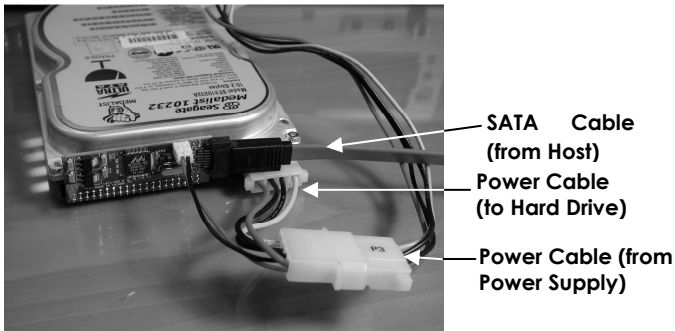


#### Note:

Please change your Parallel ATA hard drive jumper settings to "Master mode, " instead of "Cable Select". Refer to the printing on the hard drive to change the setting. Otherwise, your adapter won't detect the drive.

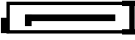
### 3. Installing the Adapter

1. Power down the computer and peripherals.
2. **Please change the parallel ATA hard drive to “Master” mode instead of “Cable Select” or “Slave”.**
3. Remove the computer cover and save the screws.
4. Connect the SATA-to-PATA adapter and cables:
  - Connect the 40-pin connector to your hard drive.
  - Connect the 4-pin Female power connector to the hard drive.
  - Connect the 4-pin Male power connector to power supply.



5. Install the Serial ATA cable supplied with this adapter.
6. Carefully reinstall the computer cover. Insert and tighten the computer cover screws.
7. Power up the PC and observe the monitor. The BIOS lists Serial ATA device attached to this adapter.
8. If the information displayed on your monitor is correct (the installed hard drive is listed with the correct device name, etc.), congratulations! You have successfully installed the Serial ATA to Parallel ATA adapter in your computer. You are ready to use this adapter since it is transparent to the BIOS and operating system.

## 4. Serial ATA Connector Pin-assignment

Pin	Signal	Pin	Signal	Pin	Signal	
2,3	TX+, TX-	5,6	RX+,RX-	1,4,7	GND	

## 5. Parallel ATA Connector Pin-assignment

Pin Number	Signal	Pin Number	Signal
1	RESET-	2	GND
3	DD7	4	DD8
5	DD6	6	DD9
7	DD5	8	DD10
9	DD4	10	DD11
11	DD3	12	DD12
13	DD2	14	DD13
15	DD1	16	DD14
17	DD0	18	DD15
19	GND	20	KEY
21	DMARQ	22	GND
23	DIOW-	24	GND
25	DIOR-	26	GND
27	IODRY	28	CSEL
29	DMACK-	30	GND
31	INTRQ	32	IOCS16-
33	DA1	34	PDIAG
35	DA0	36	DA2
37	CS0-	38	CS1-
39	DASP-	40	GND

## 6. Troubleshooting Tips

**Q: My Parallel ATA hard drive is not detected by the system BIOS, what wrong?**

**A:**

1. Please set your parallel ATA hard drive jumper at "Master only". This adapter won't support "Cable Select" or "Slave" modes.
2. Please check if this adapter was supplied power by its power cable.
3. Please check if parallel ATA cable was connected with the correct direction.

**Q: What is the maximum Serial ATA cable length?**

**A:** The Serial ATA standard supports 1 meter. However, this adapter works with longer than 1 meter. Longer cable requires better quality anyway

**Q: Does this adapter support Hot-plug feature?**

**A:** Yes to Serial ATA cable. However, no to parallel ATA connector since it won't support hot-plug feature by its specifications.