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IO CREST SY-PEX40039

IO CREST 2 Port SATA III PCI-e 2.0 x1 Controller Card SY-PEX40039 Instruction Manual

Model: SY-PEX40039

INTRODUCTION

This instruction manual provides detailed information for the installation, operation, maintenance, and troubleshooting of your IO CREST 2 Port SATA III PCI-e 2.0 x1 Controller Card, model SY-PEX40039. Please read this manual thoroughly before installation and use to ensure proper functionality and to prevent damage to your system components.

PRODUCT OVERVIEW

The IO CREST SY-PEX40039 is a 2-port SATA III (6Gbps) PCI-Express x1 controller card designed to expand the SATA capabilities of your computer system. It features the Asmedia ASM1061 chipset, supporting data transfer speeds of 6.0Gbps, 3.0Gbps, and 1.5Gbps. This card is compatible with PCI-e 2.0 x1 slots or larger and supports hot plug and hot swap functionalities, as well as port multiplier technology.

Key Features:

- **Chipset:** Asmedia ASM1061 SATA Host Controller
- **Ports:** 2 x Internal SATA III (6Gbps)
- **Interface:** PCI-Express 2.0 x1 (compatible with x1, x4, x8, x16 slots)
- **Data Transfer Rates:** Supports 6.0Gbps, 3.0Gbps, and 1.5Gbps
- **Features:** Hot Plug, Hot Swap, Port Multiplier support
- **Compatibility:** Windows Operating Systems
- **Included:** Low Profile Bracket for small form factor cases

Package Contents:

- IO CREST 2 Port SATA III PCI-e 2.0 x1 Controller Card (SY-PEX40039)
- Low Profile Bracket

- SATA Cable
- Driver CD (drivers also available on manufacturer's website)

SETUP AND INSTALLATION

Follow these steps to properly install your SATA III controller card into your computer system.

1. **Prepare your system:** Power off your computer and disconnect all power cables. Open the computer case.
2. **Select a PCI-e slot:** Locate an available PCI-Express x1 slot or a larger compatible slot (x4, x8, x16) on your motherboard.
3. **Install the card:** Carefully insert the IO CREST SATA III card into the chosen PCI-e slot, ensuring it is seated firmly. Secure the card with a screw to the computer case. If using a small form factor case, replace the standard bracket with the included low-profile bracket.
4. **Connect SATA devices:** Connect your SATA III hard drives or SSDs to the ports on the controller card using SATA data cables. Ensure the other end of the SATA cable is securely connected to your storage device.
5. **Power on and install drivers:** Close your computer case, reconnect power, and power on the system. Upon booting into your operating system, install the necessary drivers from the provided CD or download the latest drivers from the IO CREST official website.
6. **BIOS Configuration (if booting from new drive):** If you intend to boot from a drive connected to this controller card, you may need to enter your system's BIOS/UEFI settings. Ensure your SATA controllers are set to AHCI mode (not IDE). You may also need to adjust the boot order to recognize the drive connected to the PCI-e card. Consult your motherboard manual for specific BIOS settings.

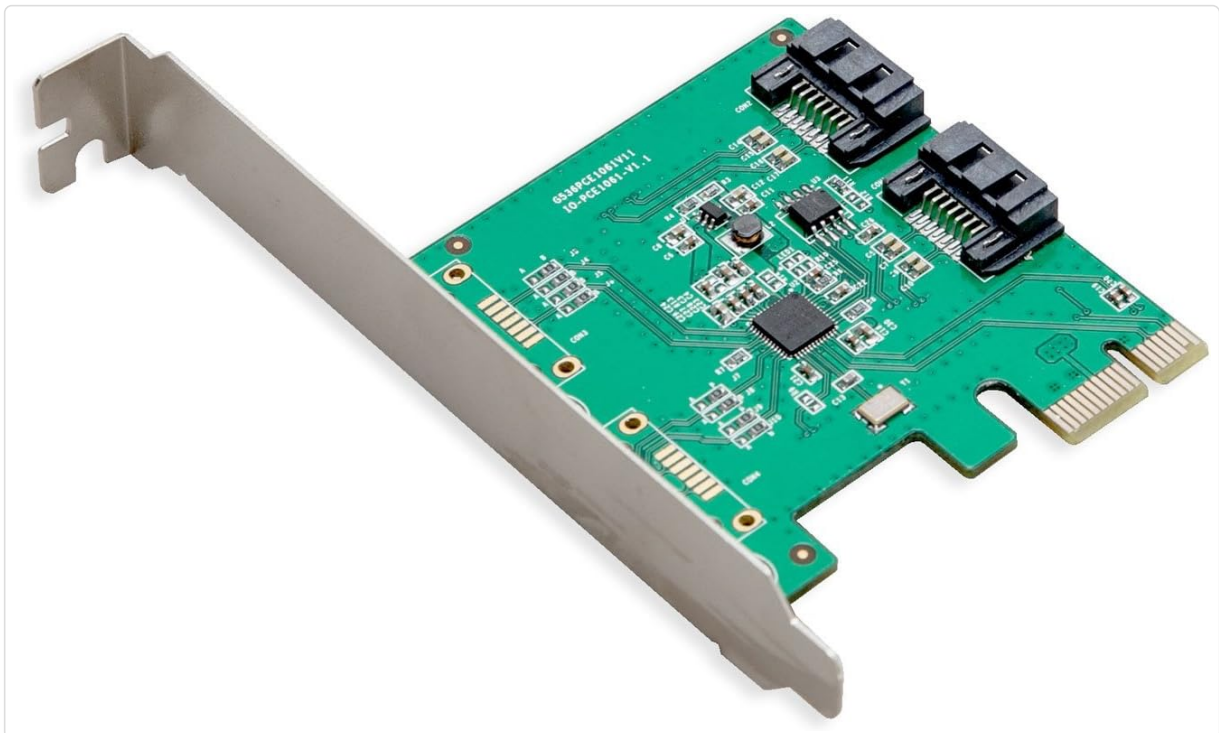


Image 1: The IO CREST 2 Port SATA III PCI-e 2.0 x1 Controller Card. This image displays the green PCB with two SATA III ports and the PCI-e connector, along with the standard metal bracket.

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Video 1: An overview and installation guide for the 2 Port SATA III PCI-e 2.0 x1 Card. This video demonstrates the physical installation of the card into a PCI-e slot, securing it with a bracket, and connecting a SATA cable to a hard drive.

OPERATING INSTRUCTIONS

Once the card is installed and drivers are successfully loaded, your operating system should detect the connected SATA devices. You can manage these devices through your operating system's disk management tools.

- **Device Recognition:** After driver installation, verify that your connected SATA devices are recognized in your operating system's Device Manager (Windows) or Disk Utility (macOS/Linux).
- **Formatting New Drives:** New hard drives or SSDs connected to the card will need to be initialized and formatted before use. Refer to your operating system's documentation for instructions on disk initialization and formatting.
- **Hot Plug/Hot Swap:** The card supports hot plug and hot swap functionality, allowing you to connect or disconnect SATA devices while the system is running. Always ensure data transfer is complete before disconnecting a drive to prevent data loss.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your controller card.

- **Driver Updates:** Periodically check the IO CREST website for updated drivers to ensure compatibility and performance improvements.
- **Physical Inspection:** Occasionally inspect the card and its connections inside your computer for dust buildup or loose cables. Gently clean the card with compressed air if necessary, ensuring the system is powered off and unplugged.
- **Environmental Conditions:** Operate the computer in a well-ventilated area to prevent overheating, which can affect the performance and lifespan of internal components.

TROUBLESHOOTING

If you encounter issues with your IO CREST SATA III controller card, refer to the following common problems and solutions:

- **Card Not Detected:**
 - Ensure the card is fully seated in the PCI-e slot.
 - Try installing the card in a different PCI-e slot.
 - Verify that the necessary drivers are installed correctly.
- **Connected Drives Not Recognized:**
 - Check all SATA data and power cable connections to the drives and the card.
 - Ensure drives are properly initialized and formatted in your operating system's disk management utility.
 - Confirm that your motherboard's BIOS/UEFI settings have SATA controllers set to AHCI mode.
- **System Fails to Boot or Boots Slowly:**
 - This can sometimes occur if the system's BIOS/UEFI is attempting to boot from a drive on the controller card before the card's firmware is fully initialized, or if there are driver conflicts.
 - Ensure the latest drivers are installed.
 - If booting from a drive connected to the card, verify the boot order in BIOS/UEFI.

- Temporarily remove the card to see if the system boots normally. If it does, re-install the card and re-check driver and BIOS settings.

- **Slow Data Transfer Speeds:**

- Ensure you are using SATA III (6Gbps) compatible drives and cables.
- Verify that the card is installed in a PCI-e 2.0 x1 or higher slot.
- Confirm AHCI mode is enabled in BIOS/UEFI.
- Update the card's drivers to the latest version.

SPECIFICATIONS

Brand	IO CREST
Model Number	SY-PEX40039
Chipset	Asmedia ASM1061
Interface	PCI-Express 2.0 x1
Ports	2 x Internal SATA III (6.0 Gb/s)
Data Transfer Rates	6.0Gbps, 3.0Gbps, 1.5Gbps
Features	Hot Plug, Hot Swap, Port Multiplier Support
Operating System Support	Windows
Dimensions (LxWxH)	1 x 5 x 7 inches (approximate)
Item Weight	3.52 ounces

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official IO CREST website. Keep your purchase receipt for warranty claims.

Manufacturer: Syba

Website: IO CREST Store on Amazon (for general product information)