



ExpressPCI Ultra320 Release v4.41 – Mac® OS X

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to ExpressPCI Ultra320 SCSI adapter driver, version 4.41, released on 11/24/2009. This information pertains to the Mac OS X driver associated with the ExpressPCI Ultra320 SCSI products.

2. Changes

- **Version 4.41 (Released 11/24/2009)**
 - The following apply to changes made from v4.40 to v4.41
 - **It is recommended that firmware version 2009_04_10 and BIOS version 2.27 be utilized with this driver release.**
 - **New Features, Enhancements and Changes**
 - Event logging enhanced to include added timestamps.
 - Enhanced memory allocation for Snow Leopard. Improved memory resource usage to prevent fragmentation issues.
 - Modified driver to allow for improved system boot operations
- **Version 4.40 (Released 08/28/2009)**
 - The following apply to changes made from v4.33 to v4.40
 - **It is recommended that firmware version 2009_04_10 and BIOS version 2.27 be utilized with this driver release.**
 - **New Features, Enhancements and Changes**
 - Added support for 64-bit Snow Leopard. Note that in Snow Leopard, the installers will now warn the user when downgrading to an earlier driver.
 - Enhanced security by updating the Uninstall.command script to display "Permission denied" when the password is incorrect or blank.
- **Version 4.33 (Released 02/24/2009)**
 - The following apply to changes made from v4.32 to v4.33
 - **It is recommended that firmware version 2008_02_18 and BIOS version 2.25 be utilized with this driver release.**
 - **New Features, Enhancements and Changes**
 - Resolved a issue in abort processing that could cause the driver to crash if the task management command was never sent to the device
- **Version 4.32 (Released 01/30/2009)**
 - The following apply to changes made from v4.31 to v4.32
 - **It is recommended that firmware version 2008_02_18 and BIOS version 2.25 be utilized with this driver release.**
 - **New Features, Enhancements and Changes**
 - Resolved a Kernel Panic caused by running out of resources under heavy I/O

- **Version 4.31 (Released 09/26/2008)**
 - The following apply to changes made from v4.30 to v4.31
 - **It is recommended that firmware version 2008_02_18 and BIOS version 2.25 be utilized with this driver release.**
 - **New Features, Enhancements and Changes**
 - Addressed an issue where an external bus reset during negotiation could cause a kernel panic
 - Changed the auto request sense length to be only what the application asked for instead of the maximum amount
 - Created a fix for a firmware issue where a READ ATTRIBUTE command with an odd transfer length would hang the SCSI bus by temporarily negotiating to U160

- **Version 4.30 (Released 02/29/2008)**
 - The following apply to changes made from v4.20 to v4.30
 - **It is recommended that firmware version 2008_02_18 and BIOS version 2.25 be utilized with this driver release.**
 - **New Features, Enhancements and Changes**
 - Addressed an issue with a bus hang during data transfer when a write command is issued with a length that is not a multiple of four.
 - Improved power management functionality when multiple host adapters are installed in the same computer.
 - Revert to converting all untagged commands to ordered queue.
 - Modified diagnostic test for an interrupt pending to ensure that interrupts are processed correctly when shared with other PCI devices.
 - All event sources are disabled prior to the driver unloading to prevent a kernel panic when other devices share the same interrupt.
 - Improved out-of-resource processing code
 - Performance improvements for applications that request more than 24 bytes.
 - Improved uninstaller script to function better for non-root users.

3. Known Issues/Advisements

- Power management is disabled for PCI-Express adapters on PPC platforms due to a bug in the PowerMac PCI-Express G5 chipset that causes the system to hang when resuming from sleep.

4. Affected Products

Product Name	SKU
ExpressPCI UL4S	EPCI-UL4S-XXX
ExpressPCI UL4D	EPCI-UL4D-XXX
ExpressPCI UL5D	EPCI-UL5D-XXX
ExpressPCI UL5D Low Profile	EPCI-UL5D-LXX

5. Contacting ATTO Support

ATTO Technology, Inc. is renowned for its technical support services. ATTO's goal is to provide you the quickest response possible for your technical support needs, and is available Monday-Friday, 8:00 AM to 8:00 PM EST (except holidays and plant closings).

ATTO Technical Support can be contacted via phone or email:

- Phone: 716.691.1999 ext. 242
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