



## ExpressPCI Ultra320 Release v3.15 - Windows®

### 1. General Release Information

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These product release notes define the new features, changes, known issues and release details that apply to ExpressPCI Ultra320 SCSI adapter driver, version 3.15, released on 11/24/2009. This information pertains to the Microsoft Windows drivers associated with the ExpressPCI Ultra320 SCSI products for x86, x64 and x64 Itanium platforms.

### 2. Changes

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- **Version 3.15 (Released 11/24/2009)**
  - The following apply to changes made from v3.14 to v3.15
  - **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**
    - Windows Server 2008 WHQL for ExpressPCI UL5D LP.
- **Version 3.14 (Released 08/28/2009)**
  - The following apply to changes made from v3.13 to v3.14
  - **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**
    - Documented support for Windows 7.
    - Configuration Tool enhancement for NVRAM
    - Registry setting change, for correction of data length for drives with sector sizes between 513 and 767 bytes
- **Version 3.13 (Released 03/10/2009)**
  - The following apply to changes made from v3.12 to v3.13
  - **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**
    - Added the SRB function to the event log
    - Resolved an Invalid SCSI Request Block from Windows
- **Version 3.12 (Released 02/24/2009)**
  - The following apply to changes made from v3.11 to v3.12
  - **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 an issue in abort processing that could cause the driver to crash if the task management command was never sent to the device
    - Assigned valid message IDs to the driver's custom event log messages to avoid erroneous messages from being displayed for system events

- **Version 3.11 (Released 09/26/2008)**
  - The following apply to changes made from v3.10 to v3.11
  - **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 an issue when an external bus reset during negotiation could cause a blue screen
    - Resolved an issue with Storport where a device or logical unit request from Windows would cause a blue screen
    - Resolved the calculation of the maximum allowed data transfer length error
    - 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
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- **Version 3.10 (Released 02/28/2008)**
  - The following apply to changes made from v3.08 to v3.10
  - **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**
    - Support for Microsoft Windows Server 2008
    - Addressed an issue with a bus hang during U320 data transfers 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.
    - The self extracting executable packages now unzip to a unique directory by default.
    - Consolidated readme files into a single HTML document.
    - Added the "UntaggedMode" registry setting to control how untagged commands are converted. This resolves an issue with tape libraries when commands that take a long time to complete are issued and the media changer and tape drive share the same target ID (ADI).
    - Added SCSI Read12 and Write12 commands to those that will be converted to ordered queue when they are untagged (when UntaggedMode is set to 2).
    - Removed spinlocks, DPC scheduling, and IRQL modification in crashdump/hibernate mode for Server 2003 and Server 2008 WHQL compliance.
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- **Version 3.08 (Released 09/7/2007)**
  - The following apply to changes made from v3.05 to v3.08
  - **New Features, Enhancements and Changes**
    - Rework I/O processing for 'normal' requests to improve performance (deferred queues are bypassed).
    - Improved Task Management handling
    - The chip is no longer reset on a rescan when a tape drive or media changer is present. As a result, bus mode changes are no longer supported (SE <-> LVD).
    - Fix the potential for a double completion if a bus reset occurs when an I/O with negotiation is outstanding.
    - Modification to clean up all requests when a chip reset occurs.
    - Resolved an issue that could occur on some motherboards when a PCIe based UL5 HBA is in the same system with a PCI-X based UL4 HBA.
    - Added PCI information and driver version to the event log.
    - Change to acquire the deferred lock while aborting a request.
    - Resolved a driver load issue with Win2000 introduced in the previous release.
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- **Version 3.05 (Released 04/10/2007)**
  - The following apply to changes made from v3.00 to v3.05
  - **New Features, Enhancements and Changes**
    - Support for Microsoft Windows Vista

- Delay bus scans for 15 seconds after a power cycle to prevent WHQL test errors.
- Added ability to use the WDK for generating PREfast results for WHQL.
- Fix bus scan issue with Power Center that caused devices not to show up due to simultaneous bus scans in Windows Vista.
- Only convert untagged commands to ordered queue for reads and writes.
- Escalate an abort to an abort task set if the request is untagged.
- Performance improvement for 8MB requests.
- Set the completion status of internal bus rescan requests correctly after retries.

### 3. Known Issues/Advisements

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- None

### 4. Affected Products

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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

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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).

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