



Product Brief

MCCI® MSC-300 Driver for Windows

Storage Networks: Performance

Evolution in transport protocols and interconnect technologies has enabled faster and more reliable data transfer. The capabilities of the host operating system, specifically of the host OS drivers, are a key part of this evolution.

In Microsoft Windows 2000, XP, and Vista, the SCSIport driver was used to deliver SCSI commands to storage targets.

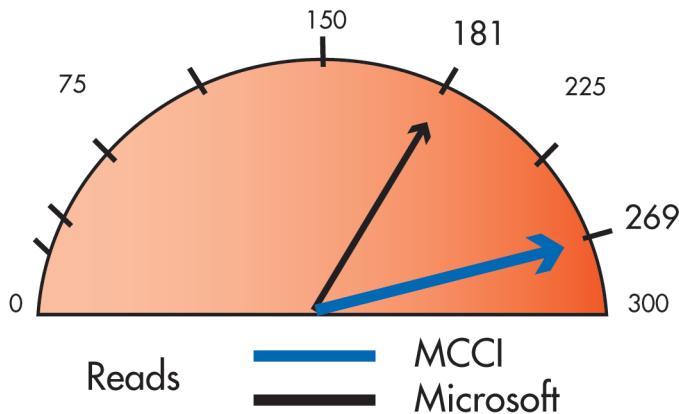
Because of limitations with the SCSIport driver, Microsoft issued the Storport driver as of Windows Vista SP1. The Storport driver is the current standard for mass storage applications.

MCCI MSC-300 Driver

The MCCI MSC-300 Driver for Windows XP and later versions is a Mass Storage class driver. It works with the Microsoft-provided Windows-host storage driver to maximize the performance of mass storage USB peripherals.

The MSC-300 Driver utilizes the Windows-provided Storport Driver to achieve better performance. Once installed, the MCCI driver transparently improves performance of USB 2.0 and USB 3.0 mass storage transfers by up to 25%. Use of the MCCI MSC-300 Driver is a low-cost method of improving the performance of hard disk drives (HDDs) and solid state drives (SSDs).

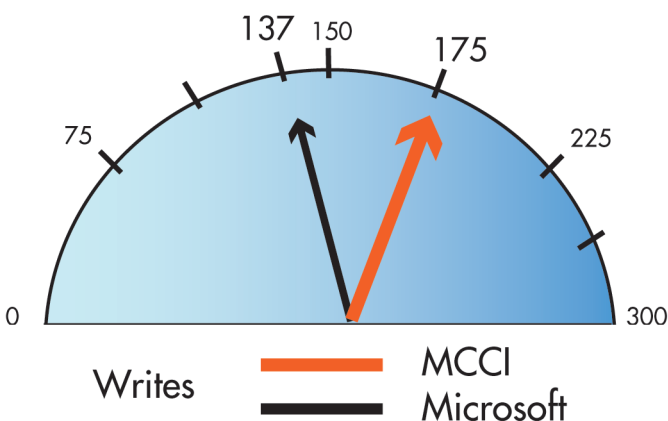
Benchmark Test Results



Maximum Read Speed Over USB 3.0:

MCCI : 269 MB/s

Microsoft : 181 MB/s



Maximum Write Speed Over USB 3.0:

MCCI : 175 MB/s

Microsoft: 137 MB/s

Test Setup

PC: Dell Precision T3400 (Intel X38 Express Chipset)
OS: Windows XP3
USB 3.0 Host: ASUS U3S6 (PCIex4 via PLX bridge chip)
Bridge Chip: Fujitsu MB86C30A (in Buffalo USB 3.0 HDD)
DISK: Intel SSD 32GB SLC (SSDA2SH032G1)

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MCCI Means High Performance

MCCI Corporation
3520 Krums Corners Rd.
Ithaca, NY 14850
USA

Tel: +1-607-277-1029
Fax: +1-607-277-6844

sales@mcci.com

Doc No.: 971644c

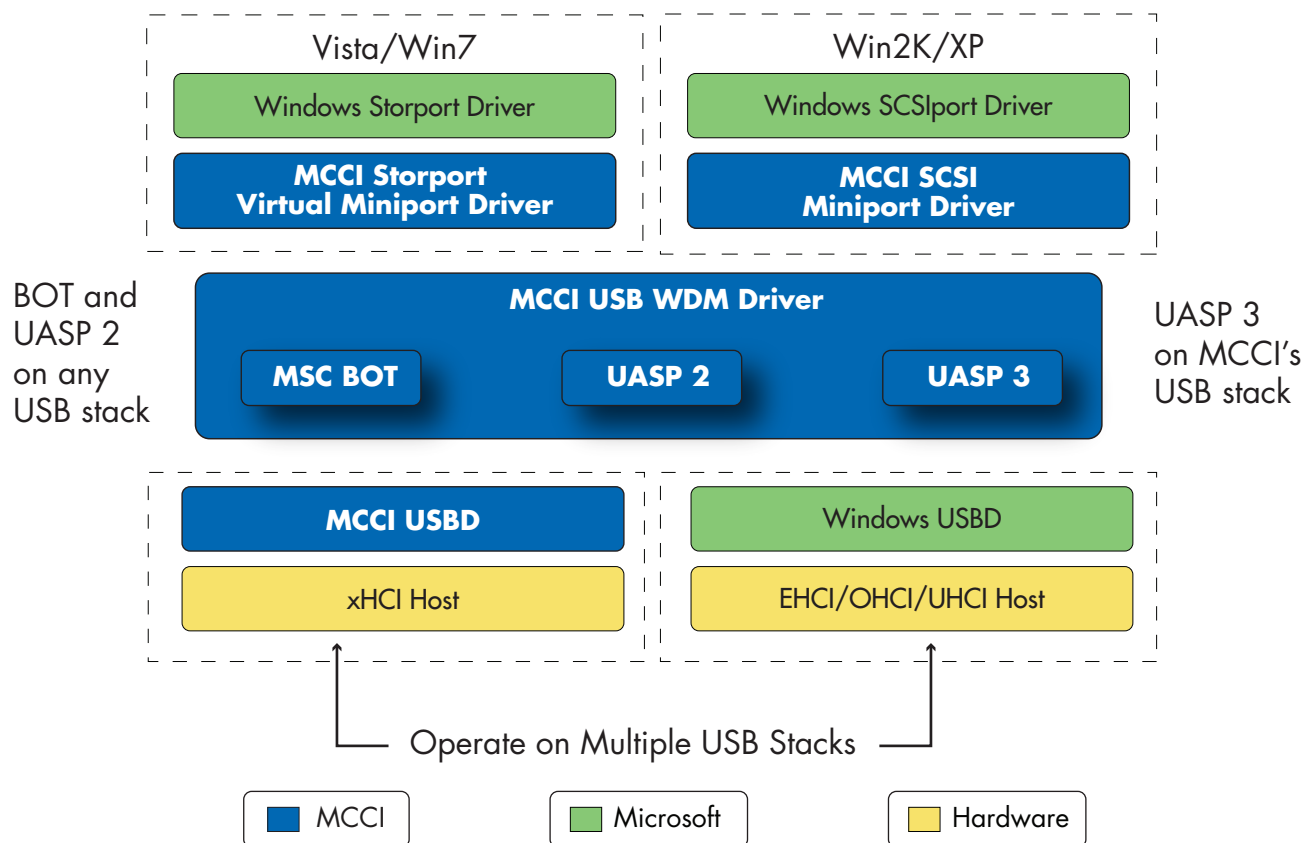
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Product Details

To the user, the MSC-300 Driver appears to be OS-version neutral. MCCI's Storport miniport driver is loaded for Windows Vista SP1, Server 2003, and later Windows versions. MCCI's SCSIport miniport driver is loaded for Windows 2K, XP, and Vista without SPs.

- USB Standard Device Requests
 - USB 2.0 Specification, Section 9.4
 - USB 3.0 Specification, Section 9.4
- UASP Commands
 - UAS - Working Draft Revision 2, Sections SPC-4 and SBC-3
- BOTP Commands
 - UAS - Working Draft Revision 2, Sections, SPC-4 and SBC-3
 - USB Mass Storage Class Bulk-Only Transport Revision 1.0

MCCI Driver Architecture



MCCI Quality and Reliability

MCCI technology has been delivered in over 600 million consumer products to date. Our customers place their USB needs for their high volume products confidently in the hands of MCCI. We have the world's largest USB software team, with a world-wide support presence that allows us to address customer support needs around the clock.