

### Overview

The HP ProLiant Essentials Accelerated iSCSI Pack enables the embedded Multifunction NIC port on a ProLiant or BladeSystem server to run iSCSI on Windows and Linux. Accelerated iSCSI on 1GbE multifunction server adapters purchased as options ships as a standard feature, at no additional charge.

iSCSI allows block-level storage data to be transported over widely used IP networks, enabling end users to access the storage network from anywhere in the enterprise. Additionally, it offloads the iSCSI function to the NIC rather than taxing the CPU of the server. The Accelerated iSCSI Pack is for use with initiator software only, and the licenses are port-based.

ProLiant Essentials Accelerated iSCSI Pack license keys may be purchased for a one-time activation of licensed features installed at that time. After the initial activation, functional upgrades will require the purchase of upgrade license keys to activate new features and enhancements made to the ProLiant Essentials Accelerated iSCSI Pack.

One ProLiant Essentials Accelerated iSCSI Pack license is required for every embedded port on which the product is installed and used. Licenses are non-transferable. Full details are contained in the End User License Agreements.

### What's New

- Electronic Software Delivery (eSD) is a faster, easier, more efficient and environmentally friendly way to fulfill your software order

### Models

Licensing and Packaging	ProLiant Essentials Accelerated iSCSI Pack, No Media, 1-Server License <b>NOTE:</b> For use with a single NIC port. Contains one license with a unique license activation key and documentation.	452679-B21
	ProLiant Essentials Accelerated iSCSI Pack, No Media, Flexible-Quantity License <b>NOTE:</b> For use with multiple NIC ports (minimum of 5). This part number allows you to specify the license quantity. When ordering this part number, the quantity ordered will be the number of licenses embedded in a single activation key. A single kit containing that key is then delivered to you.	452680-B21
	ProLiant Essentials Accelerated iSCSI Pack, No Media, Flexible-Quantity License eSD <b>NOTE:</b> Electronic software is available in all countries except China and Japan. For China and Japan should order the physical equivalent. <b>NOTE:</b> Electronic Software Delivery License- enables E-delivery of flexible-quantity of licenses without restrictions on minimum quantity.	TC295AAE

**Kit Contents** One peel and seal envelope containing a license card and license key label

### Standard Features

#### Accelerated iSCSI

Accelerated iSCSI Pack for Embedded Multifunction Server Adapters enables the embedded network controller's iSCSI offload engine (for the supported operating systems) thereby providing access to storage boxes and to servers over a single connection.

It offloads the iSCSI software to the hardware for improved performance. With the protocol stack processing offloaded to the NIC, it reduces CPU utilization. This sort of offloading can greatly improve the speed with which requests are processed and sent to the network.

The process begins when an application sends a request to the operating system (OS) to read or write data. The OS generates the appropriate SCSI commands and data request in the form of a message. Before the message can be sent over an IP network, it is processed through iSCSI to encapsulate the request into the TCP/IP protocol stack (attaching routing, error checking, and control information) for transmission over the network. The network adapter, functioning as an HBA, transmits the packets over the IP network. When the packets reach the target device, they go through a reverse process to reassemble (sequence) the data, which is then moved to the SCSI controller. The SCSI controller fulfills the request by writing data to or reading data from the target device. If it is a read transaction, the target returns data to the initiator using the iSCSI protocol.

The following Servers that have the NC382i embedded Multifunction server adapters ship with Accelerated iSCSI as a standard feature, at no additional charge:

- HP ProLiant DL360 G6
- HP ProLiant DL380 G6
- HP ProLiant DL385 G5p
- HP ProLiant DL385 G6

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#### Customer Benefits

iSCSI enables improvements in the economics, operating distance, and manageability of storage networks. iSCSI also leverages the security capabilities of IP networks.

- **Cost** - can potentially achieve a lower total cost of ownership (TCO) than Fiber Channel. Depending on application demands, Ethernet SANs can leverage existing IP network infrastructures
- **Increased data sharing** - direct-attached storage creates "islands" of storage that limit the sharing of data
- **Consolidation of storage** - resources can be efficiently allocated, shared and managed

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#### Electronic Software Delivery

Electronic software is now available in most countries. HP recommends purchasing electronic products over physical products when available for faster delivery and the convenience of not having to manage either file away or throw away-confidential paper licenses. For more information, please contact an HP representative.

### Supported Products

#### Supported operating systems

Microsoft Windows Server 2008  
Microsoft Windows HPC Server 2008  
Microsoft Windows Small Business Server 2003  
Microsoft Windows Server 2003 Web Edition  
Microsoft Windows Server 2003 Enterprise Edition  
Microsoft Windows Server 2003 Standard Edition  
Microsoft Windows 2000 Advanced Server  
Microsoft Windows 2000 Server  
Red Hat Enterprise Linux 5 AS/ES for AMD64/EM64T  
Red Hat Enterprise Linux 5 AS/ES for x86  
SUSE LINUX Enterprise Server 10 SP1 for AMD64  
SUSE LINUX Enterprise Server 10 SP1 for x86

#### Supported browsers for client systems

Microsoft Internet Explorer 6.0, SP1 or later

#### Supported servers

##### ProLiant DL (rack-optimized):

- HP ProLiant DL360 G5
- HP ProLiant DL365
- HP ProLiant DL380 G5
- HP ProLiant DL385 G2
- HP ProLiant DL580 G4
- HP ProLiant DL580 G5
- HP ProLiant DL585 G2
- HP ProLiant DL785 G5

##### ProLiant ML (rack-optimized):

- HP ProLiant ML350 G5
- HP ProLiant ML370 G5
- HP ProLiant ML570 G4

##### ProLiant BL (blades):

- HP ProLiant BL20p G4
- HP ProLiant BL25p G2
- HP ProLiant BL45p G2
- HP ProLiant BL460c
- HP ProLiant BL460c G6
- HP ProLiant BL465c G5
- HP ProLiant BL465c G6
- HP ProLiant BL480c
- HP ProLiant BL490c G6
- HP ProLiant BL495c G5
- HP ProLiant BL495c G6

### Supported Products

- HP ProLiant BL680c G5
- HP ProLiant BL685c G5
- HP ProLiant BL685c G6

**NOTE:** This is a list of supported servers. Some may be discontinued.

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**Supported iSCSI Targets** Any iSCSI storage targets that support Microsoft iSCSI Software Initiator version 2.0

## *Service and Support, HP Care Pack, and Warranty Information*

### **Warranty**

HP will replace defective delivery media replacement for a period of 90 days following the date of purchase.

### Related Options

<b>Service and Support Offerings</b> (HP Care Pack Services)	HP 1 year 24x7 Accelerated iSCSI Software Technical Support	UF550E
	HP 3 year 24x7 Accelerated iSCSI Software Technical Support	UF551E

**NOTE:** For more information, customer/resellers can contact <http://www.hp.com/hps/carepack/services/>

<b>Environment-friendly Products and Approach</b>	<b>End-of-life Management and Recycling</b>	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
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The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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