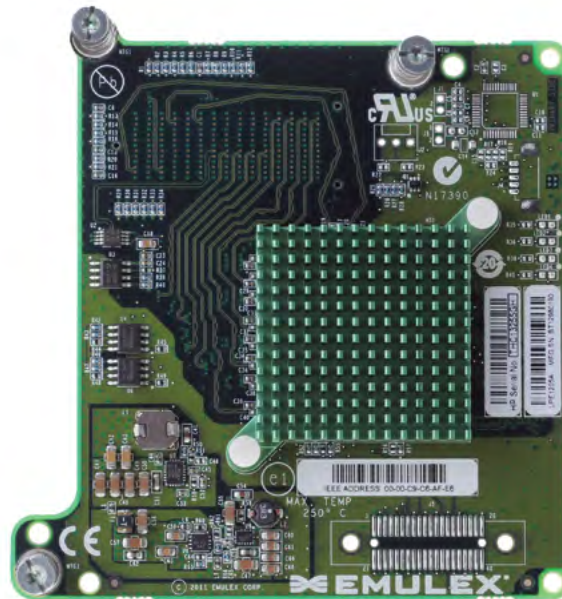




Harness the power of your HP ProLiant Gen8 server blade

HP LPe1205A 8Gb FC HBA for HP BladeSystem c-Class



Meet the needs of your next-generation data center with an enterprise-class 8 Gb Fibre Channel Host Bus Adapter that's designed for HP ProLiant Gen8 BladeSystem c-Class server blades.

Uncompromising reliability, availability, and serviceability

HP LPe1205A 8Gb FC HBA for BladeSystem c-Class is a PCI Express-based 8 Gb Fibre Channel (FC) Type A mezzanine card Host Bus Adapter (HBA) compatible with HP ProLiant Gen8 BladeSystem c-Class servers. Leveraging the power of 8 Gb performance for faster data throughput, HP LPe1205A also seamlessly attaches to 2 Gb and 4 Gb SAN devices, offering backward compatibility and investment protection for existing FC infrastructure. It offers superior reliability, exceptional performance, enhanced security, server side N-Port ID Virtualization (NPIV), and scalable management to meet the needs of the most demanding enterprise-class applications and data centers.

Combining high transfer rates, enhanced I/O processing, and virtualization enhancements, HP LPe1205A provides a rich set of features making it ideal for high-transaction database environments. It delivers broad interoperability, enabling easy deployment, and nearly continuous availability in a complex, heterogeneous SAN environment. The dual-channel design makes it ideal for mission-critical applications that rely on high-availability connectivity.

HP LPe1205A software stack design allows firmware to be upgraded without taking the server offline or re-booting, giving you a seamless upgrade process designed to help minimize system downtime.

Your SAN can be efficiently managed with the aid of simplified deployment and highly scalable centralized management available via Emulex OneCommand™ Manager (OCM) management software. OCM provides a secure, centralized administration console to monitor and manage HP LPe1205A on local and remote hosts.

Designed to support power efficiency, HP LPe1205A delivers green initiatives such as physical consolidation through blade servers, virtualization technologies, and power efficiency improvements.

Key features and benefits

Gen8 compatibility and enhanced virtualization

The HP LPe1205A is compatible with HP ProLiant Gen8 BladeSystem c-Class servers.

- In addition to 8 Gb FC performance, backward compatibility with 4 Gb FC and 2 Gb FC devices offers investment protection to SAN infrastructure.
- Storage management capabilities in a virtual server environment are enhanced by leveraging NPIV to virtualize the HBA port.
- Bandwidth, CPU efficiency, and responsiveness required for each virtual machine is higher.

Sturdy SAN reliability, availability, and security

The HP LPe1205A is highly reliable and available—supporting advanced error-checking and robust data integrity capabilities. Also, deployment of new firmware releases is simplified without disruptive system reboots.

In addition to uncompromising reliability, security is a key feature of HP LPe1205A. With FC-Security Protocol security compliance, proprietary data is protected from World Wide Name spoofing, host masquerading, and rogue or compromised servers.

- Field-proven, single-chip design reduces components and delivers industry-leading reliability.
- Combination of advanced error checking methods verifies the integrity of data blocks, which are passed from the host interface through the HBA.
- Comprehensive diagnostic functions, coupled with detailed event logging and tracing provide for fast, efficient SAN troubleshooting.
- Interoperability enables easy deployment and continuous availability in a heterogeneous SAN environment.

Outstanding performance

The HP LPe1205A delivers significant benefits to enterprise SANs requiring high performance.

- Superior performance sustains up to 200,000 I/Os per second per channel.
- Full duplex data throughput doubles maximum FC link rate from 4 Gb/s to 8 Gb/s—with enhanced virtualization capabilities.
- Frame-level multiplexing and out-of-order frame reassembly increases link efficiency and enhances HBA performance.
- Message Signaled Interrupts-eXtended (MSI-X) vector interrupt management improves application performance, reduces host CPU utilization, and provides greater I/O scalability.

Simplified management

With the Emulex OCM, thousands of HBAs can be managed from a single GUI-based management console, regardless of the operating system platform.

- Scalable centralized management simplifies deployment, administration, and network diagnostics.
- In-band and out-of-band discovery—with cross-platform support for Microsoft® Windows®, Linux, and VMware connected servers enables continuous management.
- Sophisticated management capabilities allows remote firmware upgrades, advanced diagnostics, and parameter setting to be done in seconds from a single console—anywhere in the SAN.
- Browser connectivity option provides unparalleled accessibility from anywhere in the world.
- CLI-based interface and scripting capability enables enhanced efficiency through automation.
- Universal Boot capability automatically selects appropriate boot image.
- Boot from SAN capability reduces system management costs and increases uptime.

Technical specifications

Port speed	8 Gb/s Fibre Channel
Protocol support	Fibre Channel
BladeSystem supported	HP ProLiant BL460c Gen8, BL465c Gen8, BL420c Gen8
Data throughput	3200 Mbps (full duplex)
IOPs	200,000 IOPs/port
Interfaces	PCI Express 2.0 2 port
Compatible operating systems	Microsoft Windows Server 2008 (x86_64-bit only) R1 with SP2 or higher Microsoft Windows Server 2008 (x86_64-bit only) R2 VMware ESXi 5.x VMware ESX 4.1 Red Hat Enterprise Linux 5.7 (AMD64/EM64T) Red Hat Enterprise Linux 6.1 (AMD64/EM64T) SLES 10 SLES 11
Power requirement	10 W maximum
OS driver support	Microsoft Windows, Linux, and VMware
Form factor	Mezzanine card

Services and support

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage, and ultimately retire their HP solutions. For more information on these services, please contact your local HP representative, or visit hp.com/go/hpfinancialservices.

For more information

Embrace the power of enhanced virtualization, uncompromising availability and reliability for your HP BladeSystem c-Class Gen8 server. To find out how, visit hp.com/go/bladesystem.

HP services

HP services offer comprehensive support to help design, deploy, manage, and support your IT environment and business processes.

Tap into the HP support services advantage, backed by the strategic and technical know-how of our consulting experts—for a single source solution that makes the most of your investments. Depending on your individual support requirements, choose from three levels of care that cover the entire lifecycle to better address your needs.

HP Care Pack services for HP ProLiant servers include support for qualified options at no additional cost.

Recommended HP Care Pack Services

- 3-Year HP 24x7, 4-hour response, Proactive Care
- 3-Year HP 24x7, 4-hour response, HP Collaborative Support
- HP Installation of ProLiant Add On Options Service

Related HP Care Pack Services

- 3-Year HP 24x7, 4-hour response, critical advantage
- 3-Year HP 24x7, 4-hour response, Hardware Support Onsite
- 3-Year HP 6-hour Onsite Call-to-Repair, HP Collaborative Support
- HP Proactive Select Service

Basic care: Minimum recommended support

- HP ProLiant Server Hardware Installation
- 3-Year HP 24x7, 4-hour response, Hardware Support Onsite

All come with HP Insight Remote Support, available at no additional cost, delivering remote monitoring, diagnosis, and problem resolution. Only HP brings together deep expertise, proactive and business critical support, and a strong partner network. For more information, visit hp.com/services/bladesystem.

Get connected

hp.com/go/getconnected

Current HP driver, support, and security alerts delivered directly to your desktop

© Copyright 2012 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation.

4AA4-1574ENW, Created June 2012

