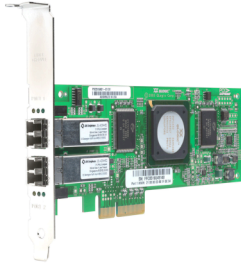


JANUARY 2007
HDS

This template does not reflect the actual newsletter layout. Standard sidebar navigation, login tips, etc. are not shown here, but will be added prior to publication.

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QLogic 4Gb PCI Express Fibre Channel HBAs Provide HDS Customers with End-to-End 4Gb SANs!



performance needs!

The industry's true "Enterprise Class" FC HBAs.

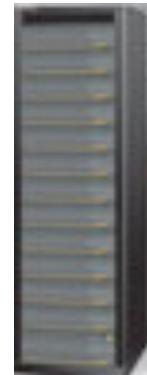
The SANblade[®] QLE2460-HDS (single-port) and QLE2462-HDS (dual-port) are members of the SANblade QLE2400 Family of HBAs. They deliver unprecedented levels of performance, availability, and intelligent networking features, making them an ideal solution for 4Gb server connectivity in the enterprise.

Couple these NEW 4Gb HBAs with QLogic 4Gb FC switches and 4Gb HDS Tagmastore™ family of storage arrays, and you have an end-to-end, HiFire supported, 4Gb solution to address your user's

Customers expect a certain level of performance and reliability to consider an HBA to be "Enterprise Class". QLogic has raised the bar beyond the basic features to provide a new set of intelligent data networking features delivered through data protection, management, and frame routing capabilities.

3 Key Areas of Technology Innovation Include:

- **Better 4Gb Performance**
 - 300,000 IOPs delivers high I/O transfer rates to storage applications.
 - Intelligent Interleaved DMA (iiDMA) ensures maximum utilization of data links.
 - Out-of-order frame reassembly (OoOFR) reduces congestion and retransmission.
- **Better 4Gb Scalability**
 - Multi-ID and N_Port virtualization "ready". Allows physical ports to be part of multiple logical networks.
 - Cisco VSAN "ready". Allows physical ports to be part of multiple logical networks.
 - Comprehensive HiFire certified operating system (OS) driver support including Linux, Windows, and Solaris. (Consult HiFire for supported driver levels.)
- **Better 4Gb Reliability**
 - Overlapping Protection Domains (OPD) for continuous protection of internal data paths.
 - T10 cyclical redundancy check (CRC) ensures end-to-end data integrity across storage area networks (SANs).
 - Three LEDs per port display real-time status and link activity information.



The combination of 4Gb fibre channel HBAs and 4Gb storage arrays, provide HDS customers with leading-edge storage networking bandwidth and I/O performance for business critical applications!

For more information on the QLE246X-HDS [click here](#)

For more technical information about the Innovations mentioned above, go to our [Tech Briefs](#).

Clearly 4Gb is getting all the “buzz’ these days. High performance and high availability are becoming the hallmarks of an Enterprise Class HBA we call SAN Pro. This QLogic patent pending technology takes SAN Pro HBAs to a new level with features such as:



1. iiDMA - is a QLogic (patent pending) feature that ensures maximum link efficiency (bandwidth utilization) between end nodes that have differing link rates.
2. OoOFR - Out Of Order Frame Reassembly is a QLogic (patent pending) feature that reassembles the frames within an exchange in the correct order, even though they may have been received out of order.
3. OPD - Overlapping Protection Domains (OPD) is a QLogic unique implementation within the FC controller ASIC that offers the highest level of data protection.
4. HAFT - Hardware Assisted Firmware Tracing (HAFT) is a QLogic (patent pending) feature that can reduce the time needed to troubleshoot FC related issues by as much as 80%.

For more detail on these exciting new features and the user benefit of each, go the [Tech Briefs](#) on SAN Pro HBAs.

My customer just bought some 2Gb HBAs and a FC Switch, why do they need 4Gb?

Good question. We have answers. First of all, 4Gb is the current state-of-the-technology for FC connectivity of systems. 4Gb HBA are designed to address new high-bandwidth applications, new server IO bus architectures and a number of other advances. And of course, HDS’ 4Gb TagmaStore arrays are helping to drive the 4Gb FC market. Sure technology advances, but for a good reason.

We are not advocating that your customers rip out their current 1 or 2Gb infrastructure and replace it with 4Gb! They now have more choices. Leave their 1 or 2Gb products in place where the bandwidth requirements dictate and put faster devices (HBA and Switches) where they can make the most impact on their business. High-bandwidth applications such as transaction processing, video streaming, imaging and engineering are important areas that will see improvements with 4Gb technology.

With a relatively small price premium customers will receive higher throughput and performance while maintaining backward compatibility and interoperability to existing HBAs and infrastructure that run at 1Gb and 2Gb speeds, thereby maintain your customer’s investment in technology.

In fact, there is an excellent **White Paper** that goes into the “Benefits of Deploying QLogic 4Gb Fibre Channel (FC) HBAs in 2Gb SAN Environments”. Click [here](#), to get it!

New HDS/QLogic Part Number Cross Reference Guide is Available!

This handy reference card gives you all the HDS part numbers and product descriptions for QLogic supplied solutions. [US Product Line Card \(LINK\)](#). [EMEA Product Line Card \(LINK\)](#)

Coming to a City Near You!

HDS, Microsoft and QLogic are partnering to produce the "Data Control Solutions Road Show". HDS and QLogic are promoting a Simple SAN solution for Microsoft Windows 2003, along with QLogic FC HBAs and switches. Eight cities have hosted the road show so far and more are scheduled through March 2007.

For additional information, please contact: Clemencia Fonseca at clemencia.fonseca@hds.com

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Interoperability



The **SAN Interoperability Guide January 2006 version** is a one-stop manual for developers and consultants interested in providing QLogic-powered products, solutions and services. It allows you to identify, at a glance, the certified SAN components best suited to your needs. The Guide includes multi-vendor certification information for switches and HBAs as well as for products powered by embedded QLogic technology. Download your copy today at:

http://www.qlogic.com/interopguide/thanks_pdf.asp

In the News

[QLogic Earns "First & Foremost" Designation from The Tolly Group for Stackable Switch Architecture](#)

Third-party testing confirms that the SANbox 5000 Series stackable FC switch is the best investment for customers.

[QLogic Showcases End-to-End Network Platform for Storage and Server Area Networks](#)

The Open Systems design of the SANbox 9000 makes core switch technology accessible and affordable to thousands of customers with complicated switch installations.