




# Nytro™ Flash Accelerator Cards






## Selector Guide

					
Product Name	Nytro™ XP6302	Nytro XP6302	Nytro XP6209	Nytro XP6209	Nytro XP6210
Product Family Type	Nytro XP6300		Nytro XP6200		Nytro XP6200
Part Number	ST1300KN0012	ST1750KN0012	ST932KN0002	ST1796KN000	ST1863KN0012
Product Description	Accelerate applications with up to 1.3TB of flash capacity while packing it all in a half-height form factor.	Accelerate applications with up to 1.75TB of flash capacity while packing it all in a half-height form factor.	Accelerate applications with economical MLC flash storage on a half-height PCIe card, 930GB.	Accelerate applications with economical MLC flash storage on a half-height PCIe card, 1.79TB.	Accelerate applications with economical flash storage on a full-height PCIe card, 1.86TB
Flash Memory Type	eMLC	eMLC	MLC	MLC	MLC
Usable Capacity <sup>1</sup>	1.31TB	1.75TB	930GB	1.79TB	1.86TB
Form Factor	Half-height, half-length (MD2)	Half-height, half-length (MD2)	Half-height, half-length (MD2)	Half-height, half-length (MD2)	Full-height, half-length (MD2)
Host Bus Type	×8 lane PCI Express 3.0	×8 lane PCI Express 3.0	×8 lane PCI Express 2.0	×8 lane PCI Express 2.0	×8 lane PCI Express 2.0
Read Bandwidth	3.9GB/s	3.9GB/s	2.0GB/s	2.0GB/s	2.0GB/s
Write Bandwidth	2.2GB/s	2.2GB/s	1.27GB/s	1.27GB/s	1.27GB/s
Read IOPS (8K)	295,000 (4K)	295,000 (4K)	155,000	155,000	185,000
Write IOPS (8K)	79,000 (4K)	79,000 (4K)	111,000	111,000	120,000
Additional Features	<ul style="list-style-type: none"> <li>• Host offload architecture delivers PCIe flash performance without burdening host CPU and host memory</li> <li>• Instant recovery from power failure delivers highest uptime capability</li> <li>• Inbox drivers for seamless kernel updates</li> <li>• Non-destructive firmware upgrade doesn't put valuable data at risk</li> </ul>				
Operating Systems	RHEL: 6.3-6.5	RHEL: 6.3-6.5	RHEL: 5.0-5.10, 6.0-6.4	RHEL: 5.0-5.10, 6.0-6.4	RHEL: 5.0-5.10, 6.0-6.4
	CentOS: 6.2-6.5	CentOS: 6.2-6.5	CentOS: 5.3-5.10, 6.0-6.4	CentOS: 5.3-5.10, 6.0-6.4	CentOS: 5.3-5.10, 6.0-6.4
			OEL: 5.4-5.9, 6.0-6.4	OEL: 5.4-5.9, 6.0-6.4	OEL: 5.4-5.9, 6.0-6.4
			SLES: 10 SP0-SP4, 11 SP1-SP3	SLES: 10 SP0-SP4, 11 SP1-SP3	SLES: 10 SP0-SP4, 11 SP1-SP3
			Debian: 6.0.5, 6.0.7	Debian: 6.0.5, 6.0.7	Debian: 6.0.5, 6.0.7
			Fedora: 17, 18	Fedora: 17, 18	Fedora: 17, 18
			Ubuntu: 10.04, 11.1, 12.04	Ubuntu: 10.04, 11.1, 12.04	Ubuntu: 10.04, 11.1, 12.04
	Windows: 2012	Windows: 2012	Windows: XP SP2, Windows7-SP1, 8, Windows Server: 2003 R2 SP2, 2008 R2-SP1, 2012	Windows: XP SP2, Windows7-SP1, 8, Windows Server: 2003 R2 SP2, 2008 R2-SP1, 2012	Windows: XP SP2, Windows7-SP1, 8, Windows Server: 2003 R2 SP2, 2008 R2-SP1, 2012
			Solaris 10U10, 11 (x86 & SPARC)	Solaris 10U10, 11 (x86 & SPARC)	Solaris 10U10, 11 (x86 & SPARC)
	VMware: ESXi 5.5	VMware: ESXi 5.5	VMware: ESX4.0U4, 4.1U2, 5.0 U1, 5.1	VMware: ESX4.0U4, 4.1U2, 5.0 U1, 5.1	VMware: ESX4.0U4, 4.1U2, 5.0 U1, 5.1

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to product capacity.

# Nytrio™ Flash Accelerator Cards

## Selector Guide

					
<b>Product Name</b>	<b>Nytrio WarpDrive™ BLP4-800</b>	<b>Nytrio WarpDrive BLP4-1600</b>	<b>Nytrio WarpDrive BFH6-1200</b>	<b>Nytrio WarpDrive BFH8-1600</b>	<b>Nytrio WarpDrive BFH8-3200</b>
<b>Product Family Type</b>	Nytrio WarpDrive		Nytrio WarpDrive		
<b>Part Number</b>	ST800KN0002	ST1600KN0002	ST1200KN0012	ST1600KN0022	ST3200KN0002
<b>Product Description</b>	Accelerate applications with ultra-low latency flash storage on a half-height PCIe card, 800GB	Accelerate applications with ultra-low latency flash storage on a half-height PCIe card, 1.6TB	Accelerate applications with ultra-low latency flash storage on a full-height PCIe card, 1.2TB	Accelerate applications with ultra-low latency flash storage on a full-height PCIe card, 1.6TB	Accelerate applications with ultra-low latency flash storage on a full-height PCIe card, 3.2TB
<b>Flash Memory Type</b>	eMLC	eMLC	eMLC	eMLC	eMLC
<b>Usable Capacity<sup>1</sup></b>	800GB	1.6TB	1.2TB	1.6TB	3.2TB
<b>Form Factor</b>	Half-height, half-length (MD2)	Half-height, half-length (MD2)	Full-height, half-length (MD2)	Full-height, half-length (MD2)	Full-height, half-length (MD2)
<b>Host Bus Type</b>	×8 lane PCI Express 2.0	×8 lane PCI Express 2.0	×8 lane PCI Express 3.0	×8 lane PCI Express 3.0	×8 lane PCI Express 3.0
<b>Read Bandwidth</b>	2.0GB/s	2.0GB/s	3.0GB/s	4.0GB/s	4.0GB/s
<b>Write Bandwidth</b>	1.0GB/s	1.0GB/s	2.0GB/s	2.5GB/s	2.5GB/s
<b>Read IOPS (8K)</b>	185,000	185,000	230,000	280,000	280,000
<b>Write IOPS (8K)</b>	120,000	120,000	140,000	200,000	200,000
<b>Additional Features</b>	<ul style="list-style-type: none"> <li>• Host offload architecture delivers PCIe flash performance without burdening host CPU and host memory</li> <li>• Instant recovery from power failure delivers highest uptime capability</li> <li>• Inbox drivers for seamless kernel updates</li> <li>• Non-destructive firmware upgrade doesn't put valuable data at risk</li> </ul>				
<b>Operating Systems</b>	RHEL: 5.0-5.10, 6.0-6.4	RHEL: 5.0-5.10, 6.0-6.4	RHEL: 5.0-5.10, 6.0-6.4	RHEL: 5.0-5.10, 6.0-6.4	RHEL: 5.0-5.10, 6.0-6.4
	CentOS: 5.3-5.10, 6.0-6.4	CentOS: 5.3-5.10, 6.0-6.4	CentOS: 5.3-5.10, 6.0-6.4	CentOS: 5.3-5.10, 6.0-6.4	CentOS: 5.3-5.10, 6.0-6.4
	OEL: 5.4-5.9, 6.0-6.4	OEL: 5.4-5.9, 6.0-6.4	OEL: 5.4-5.9, 6.0-6.4	OEL: 5.4-5.9, 6.0-6.4	OEL: 5.4-5.9, 6.0-6.4
	SLES: 10 SP0-SP4, 11 SP1-SP3	SLES: 10 SP0-SP4, 11 SP1-SP3	SLES: 10 SP0-SP4, 11 SP1-SP3	SLES: 10 SP0-SP4, 11 SP1-SP3	SLES: 10 SP0-SP4, 11 SP1-SP3
	Debian: 6.0.5, 6.0.7	Debian: 6.0.5, 6.0.7	Debian: 6.0.5, 6.0.7	Debian: 6.0.5, 6.0.7	Debian: 6.0.5, 6.0.7
	Fedora: 17, 18	Fedora: 17, 18	Fedora: 17, 18	Fedora: 17, 18	Fedora: 17, 18
	Ubuntu: 10.04, 11.1, 12.04	Ubuntu: 10.04, 11.1, 12.04	Ubuntu: 10.04, 11.1, 12.04	Ubuntu: 10.04, 11.1, 12.04	Ubuntu: 10.04, 11.1, 12.04
	Windows: XP SP2, Windows7-SP1, 8, Windows Server: 2003 R2 SP2, 2008 R2-SP1, 2012	Windows: XP SP2, Windows7-SP1, 8, Windows Server: 2003 R2 SP2, 2008 R2-SP1, 2012	Windows: XP SP2, Windows7-SP1, 8, Windows Server: 2003 R2 SP2, 2008 R2-SP1, 2012	Windows: XP SP2, Windows7-SP1, 8, Windows Server: 2003 R2 SP2, 2008 R2-SP1, 2012	Windows: XP SP2, Windows7-SP1, 8, Windows Server: 2003 R2 SP2, 2008 R2-SP1, 2012
	Solaris 10U10, 11 (x86 & SPARC)	Solaris 10U10, 11 (x86 & SPARC)	Solaris 10U10, 11 (x86 & SPARC)	Solaris 10U10, 11 (x86 & SPARC)	Solaris 10U10, 11 (x86 & SPARC)
	FreeBSD: 7.2, 7.4, 8.2, 8.3, 9.0	FreeBSD: 7.2, 7.4, 8.2, 8.3, 9.0	FreeBSD: 7.2, 7.4, 8.2, 8.3, 9.0	FreeBSD: 7.2, 7.4, 8.2, 8.3, 9.0	FreeBSD: 7.2, 7.4, 8.2, 8.3, 9.0
VMware: ESX4.0U4, 4.1U2, 5.0 U1, 5.1	VMware: ESX4.0U4, 4.1U2, 5.0 U1, 5.1	VMware: ESX4.0U4, 4.1U2, 5.0 U1, 5.1	VMware: ESX4.0U4, 4.1U2, 5.0 U1, 5.1	VMware: ESX4.0U4, 4.1U2, 5.0 U1, 5.1	

1. One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to product capacity.