

N2215 12Gb SAS/SATA Internal HBA

Product Guide (withdrawn product)

The N2215 SAS/SATA HBA is a 12Gb SAS/SATA host bus adapter for connectivity to internal storage. This eight-port host bus adapter supports direct attachment to SAS and SATA internal HDDs and SSDs. With a low-profile form-factor design, the N2215 SAS/SATA HBA offers two x4 internal mini-SAS HD connectors.

The following figure shows the N2215 SAS/SATA HBA.

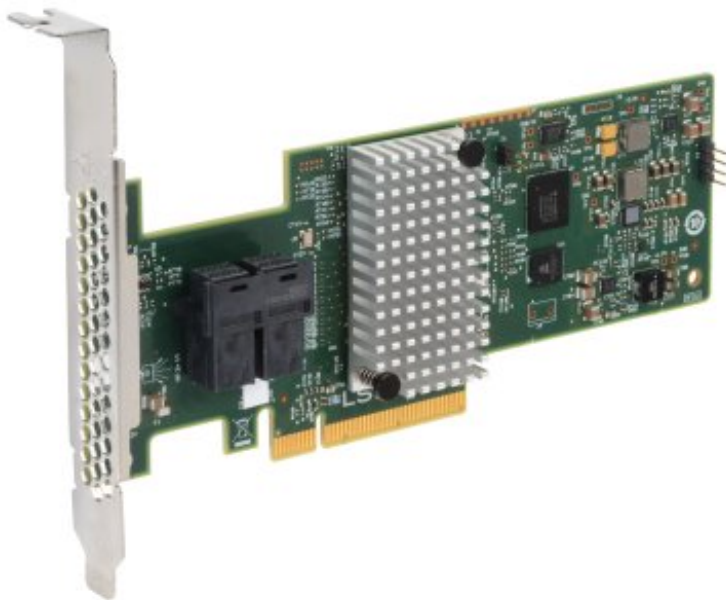


Figure 1. N2215 SAS/SATA HBA

Did you know?

The N2215 SAS/SATA HBA provides high performance for storage connectivity for servers by integrating the latest enhancements in PCI Express and SAS technology, offering eight lanes of 12 Gbps SAS matched with eight lanes of PCIe 3.0 to eliminate performance bottlenecks.

The N2215 SAS/SATA HBA supports SAS and SATA data transfer rates of 3, 6, and 12 Gbps per lane, and it enables maximum connectivity and performance in a low-profile form factor.

Rigorous testing of the N2215 SAS/SATA HBA by Lenovo through the ServerProven® program ensures a high degree of confidence in storage subsystem compatibility and reliability. Providing an additional peace of mind, the controller is covered under Lenovo warranty.

Part number information

The following table provides the ordering part numbers and feature codes.

Withdrawn: The adapter described in this product guide is now withdrawn from marketing.

Table 1. Ordering part numbers and feature codes

Description	Part number	Feature code
N2215 SAS/SATA HBA	47C8675	A3YY

The N2215 option part number includes the following items:

- One N2215 adapter with a full-height (3U) bracket
- One low-profile (2U) bracket
- Documentation package

Features and specifications

The N2215 SAS/SATA HBA has the following features and specifications:

- LSI SAS3008 12 Gbps controller
- PCI low profile, half-length - MD2 form factor
- PCI Express 3.0 x8 host interface
- Eight internal 12 Gbps SAS/SATA ports (support for 12, 6, or 3 Gbps SAS speeds and 6 or 3 Gbps SATA speeds)
- Up to 12 Gbps throughput per port
- Two internal x4 HD Mini-SAS connectors (SFF-8643)
- Non-RAID (JBOD mode) support for SAS and SATA HDDs and SSDs (RAID not supported)
- Optimized for SSD performance
- High-performance IOPS LSI Fusion-MPT architecture
- Advanced power management support
- Support for SSP, SMP, STP, and SATA protocols
- End-to-End CRC with Advanced Error Reporting
- T-10 Protection Model for early detection of and recovery from data corruption
- Spread Spectrum Clocking for EMI reductions

Server support

The following table lists the servers that support the N2215 SAS/SATA HBA.

Support for System x and dense servers with Xeon E5/E7 v4 and E3 v5 processors

Table 2. Support for System x and dense servers with Xeon E5/E7 v4 and E3 v5 processors

Part number	Description	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)	sd350 (5493)
47C8675	N2215 SAS/SATA HBA	Y	Y	Y	Y	Y	Y	N

Support for servers with Intel Xeon v3 processors

Table 3. Support for servers with Intel Xeon v3 processors

Part number	Description	x3100 M5 (5457)	x3250 M5 (5458)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)
47C8675	N2215 SAS/SATA HBA	N	N	Y	Y	Y	Y	Y

Support for servers with Intel Xeon v2 processors

Table 4. Support for servers with Intel Xeon v2 processors

Part number	Description	x3500 M4 (7383, E5-2600 v2)	x3530 M4 (7160, E5-2400 v2)	x3550 M4 (7914, E5-2600 v2)	x3630 M4 (7158, E5-2400 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3650 M4 HD (5460)	x3750 M4 (8752)	x3750 M4 (8753)	x3850 X6/x3950 X6 (3837)	x3850 X6/x3950 X6 (6241, E7 v2)	dx360 M4 (E5-2600 v2)	nx360 M4 (5455)
47C8675	N2215 SAS/SATA HBA	Y	N	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	N

See the ServerProven website for the latest information about the System x servers that support each adapter:

<http://www.lenovo.com/us/en/serverproven/xseries/controllers/matrix.shtml>

Drive support

The following table lists currently available drive options that are supported with the N2215 SAS/SATA HBA which is supported in the servers that are listed in Table 4. The maximum number of drives that can be connected to the HBA is limited by the maximum number of internal drive bays for a supported server (other configuration limitations may apply).

- Table 5: [1.8-inch SSDs](#)
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Table 5. 1.8-inch SSDs

Part number	Description	v2 processors						v3 processors						v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)	
1.8-inch hot-swap SSDs - 6 Gb SATA - Enterprise Mainstream (3-5 DWPD)																			
00AJ335	120GB SATA 1.8" MLC Enterprise Value SSD	N	N	Y	N	N	Y	N	N	N	Y	N	N	N	N	Y	N		
00AJ340	240GB SATA 1.8" MLC Enterprise Value SSD	N	N	Y	N	N	Y	N	N	N	Y	N	N	N	N	Y	N		
00AJ345	480GB SATA 1.8" MLC Enterprise Value SSD	N	N	Y	N	N	Y	N	N	N	Y	N	N	N	N	Y	N		
00AJ350	800GB SATA 1.8" MLC Enterprise Value SSD	N	N	Y	N	N	Y	N	N	N	Y	N	N	N	N	Y	N		
1.8-inch hot-swap SSDs - 6 Gb SATA - Enterprise Entry (<3 DWPD)																			
00AJ050	S3500 400GB SATA 1.8" MLC Enterprise Value SSD	N	N	Y	N	Y	N	N	N	N	N	Y	N	N	N	N	Y		

Table 6. 2.5-inch hot-swap 12 Gb SAS/SATA HDDs

Part number	Description	v2 processors					v3 processors					v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)
2.5-inch hot-swap HDDs - 12 Gb SAS 10K																	
00WG685	300GB 10K 12Gbps SAS 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00WG690	600GB 10K 12Gbps SAS 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00WG695	900GB 10K 12Gbps SAS 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00WG700	1.2TB 10K 12Gbps SAS 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00NA251	900GB 10K 12Gbps SAS 2.5" G3HS 512e HDD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00NA241	600GB 10K 12Gbps SAS 2.5" G3HS 512e HDD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00NA261	1.2TB 10K 12Gbps SAS 2.5" G3HS 512e HDD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00NA271	1.8TB 10K 12Gbps SAS 2.5" G3HS 512e HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.5-inch hot-swap HDDs - 12 Gb SAS 15K																	
00WG660	300GB 15K 12Gbps SAS 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00WG665	600GB 15K 12Gbps SAS 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00NA221	300GB 15K 12Gbps SAS 2.5" G3HS 512e HDD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00NA231	600GB 15K 12Gbps SAS 2.5" G3HS 512e HDD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
2.5-inch hot-swap HDDs - 12 Gb NL SAS																	
00NA491	1TB 7.2K 12Gbps NL SAS 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00NA496	2TB 7.2K 12Gbps NL SAS 2.5" G3HS 512e HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.5-inch hot-swap SED HDDs - 12 Gb SAS 10K																	
00WG705	300GB 10K 12Gbps SAS 2.5" G3HS SED	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00WG710	600GB 10K 12Gbps SAS 2.5" G3HS SED	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00NA291	600GB 10K 12Gbps SAS 2.5" G3HS 512e SED	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00WG715	900GB 10K 12Gbps SAS 2.5" G3HS SED	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00WG720	1.2TB 10K 12Gbps SAS 2.5" G3HS SED	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00NA301	1.2TB 10K 12Gbps SAS 2.5" G3HS 512e SED	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y

Table 7. 2.5-inch hot-swap 6 Gb SAS/SATA HDDs

Part number	Description	v2 processors						v3 processors						v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)	
2.5-inch hot-swap HDDs - 6 Gb SAS 10K																			
90Y8877	300GB 10K 6Gbps SAS 2.5" SFF G2HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
90Y8872	600GB 10K 6Gbps SAS 2.5" SFF G2HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
81Y9650	900GB 10K 6Gbps SAS 2.5" SFF HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
00AD075	1.2TB 10K 6Gbps SAS 2.5" G2HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
00NA441	1.8TB 10K 6Gbps SAS 2.5" G2HS 512e HDD	N	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
2.5-inch hot-swap HDDs - 6 Gb SAS 15K																			
00AJ111	146GB 15K 6Gbps SAS 2.5" G3HS HDD	N	N	N	N	N	Y	N	N	N	Y	N	N	N	N	Y	N		
90Y8926	146GB 15K 6Gbps SAS 2.5" SFF G2HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
81Y9670	300GB 15K 6Gbps SAS 2.5" G2HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
00AJ300	600GB 15K 6Gbps SAS 2.5" G2HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
2.5-inch hot-swap HDDs - 6 Gb NL SAS																			
00AJ121	500GB 7.2K 6Gbps NL SAS 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	N	Y	Y	N		
90Y8953	500GB 7.2K 6Gbps NL SAS 2.5" SFF G2HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
81Y9690	1TB 7.2K 6Gbps NL SAS 2.5" SFF HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
2.5-inch hot-swap HDDs - 6 Gb NL SATA																			
00AJ136	500GB 7.2K 6Gbps NL SATA 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y		
00AJ141	1TB 7.2K 6Gbps NL SATA 2.5" G3HS HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
00NA526	2TB 7.2K 6Gbps NL SATA 2.5" G3HS 512e HDD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
81Y9726	500GB 7.2K 6Gbps NL SATA 2.5" SFF HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
81Y9730	1TB 7.2K 6Gbps NL SATA 2.5" SFF HS HDD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
2.5-inch hot-swap SED HDDs - 6 Gb SAS 10K																			
90Y8913	300GB 10K 6Gbps SAS 2.5" SFF G2HS SED	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
90Y8908	600GB 10K 6Gbps SAS 2.5" SFF G2HS SED	N	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		
81Y9662	900GB 10K 6Gbps SAS 2.5" SFF G2HS SED	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N		

Table 8. 2.5-inch hot-swap 12 Gb SAS/SATA SSDs

Part number	Description	v2 processors					v3 processors					v4 & v5 procs						
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)
2.5-inch hot-swap SSDs - 12 Gb SAS - Enterprise Performance (10+ DWPD)																		
00FN379	200GB 12G SAS 2.5" MLC G3HS Enterprise SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00FN389	400GB 12G SAS 2.5" MLC G3HS Enterprise SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00FN399	800GB 12G SAS 2.5" MLC G3HS Enterprise SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00FN409	1.6TB 12G SAS 2.5" MLC G3HS Enterprise SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
2.5-inch hot-swap SSDs - 12 Gb SAS - Enterprise Mainstream (3-5 DWPD)																		
00YC460	400GB Enterprise Mainstream 12Gb SAS G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00YC465	800GB Enterprise Mainstream 12Gb SAS G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
00YC470	1.6TB Enterprise Mainstream 12Gb SAS G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y

Table 9. 2.5-inch hot-swap 6 Gb SAS/SATA SSDs

Part number	Description	v2 processors					v3 processors					v4 & v5 procs						
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)
2.5-inch hot-swap SSDs - 6 Gb SAS - Enterprise Capacity																		
00NA671	3.84TB 6Gb SAS Enterprise Capacity G3HS MLC SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y
2.5-inch hot-swap SSDs - 6 Gb SAS - Enterprise Performance (10+ DWPD)																		
00AJ207	200GB SAS 2.5" MLC G3HS Enterprise SSD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	N
00AJ212	400GB SAS 2.5" MLC G3HS Enterprise SSD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	N
00AJ217	800GB SAS 2.5" MLC G3HS Enterprise SSD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	N
49Y6129	200GB SAS 2.5" MLC HS Enterprise SSD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N	N
49Y6134	400GB SAS 2.5" MLC HS Enterprise SSD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N	N

Part number	Description	v2 processors					v3 processors					v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)
49Y6139	800GB SAS 2.5" MLC HS Enterprise SSD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
49Y6195	1.6TB SAS 2.5" MLC HS Enterprise SSD	N	Y	N	N	Y	N	N	N	N	N	N	N	N	N	N	N
2.5-inch hot-swap SSDs - 6 Gb SATA - Enterprise Performance (10+ DWPD)																	
00YC320	Intel S3710 200GB Enterprise Performance SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y
00YC325	Intel S3710 400GB Enterprise Performance SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y
00YC330	Intel S3710 800GB Enterprise Performance SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y
2.5-inch hot-swap SSDs - 6 Gb SATA - Enterprise Mainstream (3-5 DWPD)																	
00YC529	M500DC 480GB Enterprise Mainstream Plus SATA G3HS 2.5" SSD	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y	N	N
00AJ395	120GB SATA 2.5" MLC G3HS Enterprise Value SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y
00AJ400	240GB SATA 2.5" MLC G3HS Enterprise Value SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y
00AJ405	480GB SATA 2.5" MLC G3HS Enterprise Value SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y
00AJ410	800GB SATA 2.5" MLC G3HS Enterprise Value SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y
00AJ355	120GB SATA 2.5" MLC HS Enterprise Value SSD	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N
00AJ360	240GB SATA 2.5" MLC HS Enterprise Value SSD	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N
00AJ365	480GB SATA 2.5" MLC HS Enterprise Value SSD	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N
00AJ370	800GB SATA 2.5" MLC HS Enterprise Value SSD	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N
2.5-inch hot-swap SSDs - 6 Gb SATA - Enterprise Entry (<3 DWPD)																	
00WG620	Intel S3510 120GB Enterprise Entry SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00WG625	Intel S3510 240GB Enterprise Entry SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00WG630	Intel S3510 480GB Enterprise Entry SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00WG635	Intel S3510 800GB Enterprise Entry SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
00AJ000	S3500 120GB SATA 2.5" MLC HS Enterprise Value SSD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
00AJ005	S3500 240GB SATA 2.5" MLC HS Enterprise Value SSD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
00AJ010	S3500 480GB SATA 2.5" MLC HS Enterprise Value SSD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
00AJ015	S3500 800GB SATA 2.5" MLC HS Enterprise Value SSD	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
00YC385	120GB Enterprise Entry SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y
00YC390	240GB Enterprise Entry SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y

Part number	Description	v2 processors						v3 processors						v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)	
00YC395	480GB Enterprise Entry SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y		
00YC400	960GB Enterprise Entry SATA G3HS 2.5" SSD	N	N	N	N	N	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y		
00YC365	120GB Enterprise Entry SATA HS 2.5" SSD	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N		
00YC370	240GB Enterprise Entry SATA HS 2.5" SSD	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N		
00YC375	480GB Enterprise Entry SATA HS 2.5" SSD	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N		
00YC380	960GB Enterprise Entry SATA HS 2.5" SSD	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N		

Table 10. 3.5-inch hot-swap 12 Gb SAS/SATA HDDs

Part number	Description	v2 processors						v3 processors						v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)	
3.5-inch hot-swap HDDs - 12 Gb NL SAS																			
00FN188	2TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	N	N	N	N	N	Y	Y	Y	N	N	Y	Y	Y	Y	N	N		
00FN208	4TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	N	N	N	N	N	Y	Y	Y	N	N	Y	Y	Y	Y	N	N		
00FN228	6TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	N	N	N	N	N	Y	Y	Y	N	N	Y	Y	Y	Y	N	N		
00WH121	8TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	N	N	N	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	N		

Table 11. 3.5-inch hot-swap 6 Gb SAS/SATA HDDs

Part number	Description	v2 processors						v3 processors						v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)	
3.5-inch hot-swap HDDs - 6 Gb SAS 15K																			
49Y6092	300GB 15K 6Gbps SAS 3.5" G2HS HDD	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N		
49Y6102	600GB 15K 6Gbps SAS 3.5" G2HS HDD	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N		
3.5-inch hot-swap HDDs - 6 Gb NL SAS																			
90Y8567	1TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	Y	Y	Y	Y	N	N	Y	Y	Y	N	N	N	N	Y	Y	N		
90Y8572	2TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	Y	Y	Y	Y	N	N	N	Y	Y	N	N	N	N	Y	Y	N		
49Y6210	4TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	N	Y	N	Y	N	N	N	N	N	N	N	N	N	Y	Y	N		
00ML213	6TB 7.2K 6Gbps NL SAS 3.5" G2HS 512e HDD	Y	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N		
3.5-inch hot-swap HDDs - 6 Gb NL SATA																			
81Y9786	500GB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	Y	Y	Y	Y	N	N	Y	Y	Y	N	N	Y	Y	Y	Y	N		
81Y9790	1TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	Y	Y	Y	Y	N	N	Y	Y	Y	N	N	N	N	Y	Y	N		
81Y9794	2TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	Y	Y	Y	Y	N	N	Y	Y	Y	N	N	N	N	Y	Y	N		
00FN113	2TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	Y	Y	Y	Y	N	N	Y	Y	Y	N	N	Y	Y	Y	Y	N		
00FN143	4TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	Y	Y	Y	Y	N	N	Y	Y	Y	N	N	Y	Y	Y	Y	N		
00FN173	6TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	Y	Y	Y	Y	N	N	Y	Y	Y	N	N	Y	Y	Y	Y	N		
00WH126	8TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	Y	Y	N		
3.5-inch hot-swap SEDs - 6 Gb NL SAS																			
00W1543	4TB 7.2K 6Gbps NL SAS 3.5" G2HS SED	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N		

Table 12. 3.5-inch hot-swap 12 Gb SAS/SATA SSDs

Part number	Description	v2 processors						v3 processors						v4 & v5 procs				
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)
3.5-inch hot-swap SSDs - 12 Gb SAS - Enterprise (10+ DWPD)																		
00WG675	300GB 15K 12Gbps SAS 3.5" G2HS HDD	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	N
00WG680	600GB 15K 12Gbps SAS 3.5" G2HS HDD	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	N

Table 13. 3.5-inch hot-swap 6 Gb SAS/SATA SSDs

Part number	Description	v2 processors						v3 processors						v4 & v5 procs				
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)
3.5-inch hot-swap SSDs - 6 Gb SATA - Enterprise Performance (10+ DWPD)																		
00YC340	Intel S3710 400GB Enterprise Performance SATA HS 3.5" SSD	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	N
00YC345	Intel S3710 800GB Enterprise Performance SATA HS 3.5" SSD	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	N
3.5-inch hot-swap SSDs - 6 Gb SATA - Enterprise Mainstream (3-5 DWPD)																		
00AJ435	120GB SATA 3.5" MLC HS Enterprise Value SSD	N	N	N	Y	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	N
00AJ445	480GB SATA 3.5" MLC HS Enterprise Value SSD	N	N	N	Y	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	N
3.5-inch hot-swap SSDs - 6 Gb SATA - Enterprise Entry (<3 DWPD)																		
00WG770	Intel S3510 120GB Enterprise Entry SATA HS 3.5" SSD	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N
00WG775	Intel S3510 240GB Enterprise Entry SATA HS 3.5" SSD	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N
00WG780	Intel S3510 480GB Enterprise Entry SATA HS 3.5" SSD	N	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N
00YC420	960GB Enterprise Entry SATA HS 3.5" SSD	N	N	N	Y	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	N

Table 14. 2.5-inch simple-swap 6 Gb SAS/SATA HDDs

Part number	Description	v2 processors						v3 processors						v4 & v5 procs				
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)
2.5-inch simple-swap HDDs - 6 Gb NL SATA																		
00NA597	500GB 7.2K 6Gbps NL SATA 2.5" G3SS HDD	N	N	N	N	N	N	N	Y	Y	N	N	N	N	Y	Y	N	N
00NA622	1TB 7.2K 6Gbps NL SATA 2.5" G3SS HDD	N	N	N	N	N	N	N	Y	Y	N	N	Y	Y	Y	Y	N	N
00NA536	2TB 7.2K 6Gbps NL SATA 2.5" G3SS 512e HDD	N	N	N	N	N	N	N	Y	Y	N	N	Y	Y	Y	Y	N	N

Table 15. 3.5-inch simple-swap 6 Gb SAS/SATA HDDs

Part number	Description	v2 processors						v3 processors						v4 & v5 procs				
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)
3.5-inch simple-swap HDDs - 6 Gb NL SATA																		
81Y9802	500GB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	Y	Y	Y	N	N	N	Y	Y	Y	N	N	Y	Y	Y	Y	N	N
81Y9806	1TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	Y	Y	Y	N	N	N	Y	Y	Y	N	N	N	Y	Y	Y	N	N
81Y9810	2TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	Y	Y	Y	N	N	N	Y	Y	Y	N	N	N	Y	Y	Y	N	N

Table 16. 2.5-inch internal 12 Gb HDDs for NeXtScale

Part number	Description	v2 processors						v3 processors				v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)
2.5-inch NeXtScale HDDs - 12 Gb SAS 10K HDDs																	
00WG725	300GB 10K 12Gbps SAS 2.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00WG730	600GB 10K 12Gbps SAS 2.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00WG735	900GB 10K 12Gbps SAS 2.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00WG740	1.2TB 10K 12Gbps SAS 2.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y

Table 17. 2.5-inch internal 6 Gb HDDs for NeXtScale

Part number	Description	v2 processors						v3 processors				v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)
2.5-inch NeXtScale HDDs - 6 Gb SAS 15K HDDs																	
00WG670	300GB 15K 12Gbps SAS 2.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00AJ290	600GB 15K 6Gbps SAS 2.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
2.5-inch NeXtScale HDDs - 6 Gb NL SATA HDDs																	
00NA566	2TB 7.2K 6Gbps NL SATA 2.5" 512e HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
2.5-inch NeXtScale HDDs - 6 Gb SATA HDDs																	
00AD035	500GB 7.2K 6Gbps SATA 2.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00AD040	1TB 7.2K 6Gbps SATA 2.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y

Table 18. 3.5-inch internal 12 Gb HDDs for NeXtScale

Part number	Description	v2 processors						v3 processors				v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)
2.5-inch NeXtScale HDDs - 12 Gb SAS 10K HDDs																	
00NA356	1.8TB 10K 12Gbps SAS 2.5" 512e HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y

Table 19. 3.5-inch internal 6 Gb HDDs for NeXtScale

Part number	Description	v2 processors						v3 processors				v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)
3.5-inch NeXtScale HDDs - 12 Gb NL SAS HDDs																	
00FN213	4TB 7.2K 12Gbps NL SAS 3.5" 512e HDD for NextScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
3.5-inch NeXtScale HDDs - 6 Gb NL SATA and SATA																	
00FN123	2TB 7.2K 6Gbps NL SATA 3.5" 512e HDD for NextScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00FN183	6TB 7.2K 6Gbps NL SATA 3.5" 512e HDD for NextScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00WH131	8TB 7.2K 6Gbps NL SATA 3.5" 512e HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00AD010	1TB 7.2K 6Gbps SATA 3.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y
00AD025	4TB 7.2K 6Gbps SATA 3.5" HDD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y

Table 20. 2.5-inch internal 6 Gb SSDs for NeXtScale

Part number	Description	v2 processors						v3 processors						v4 & v5 procs					
		x3500 M4 (7383, E5-2600 v2)	x3550 M4 (7914, E5-2600 v2)	x3650 M4 (7915, E5-2600 v2)	x3650 M4 BD (5466)	x3750 M4 (8753)	x3850 X6/x3950 X6 (6241, E7 v2)	x3500 M5 (5464)	x3550 M5 (5463)	x3650 M5 (5462)	x3850 X6/x3950 X6 (6241, E7 v3)	nx360 M5 (5465)	x3250 M6 (3943)	x3250 M6 (3633)	x3550 M5 (8869)	x3650 M5 (8871)	x3850 X6/x3950 X6 (6241, E7 v4)	nx360 M5 (5465, E5-2600 v4)	
2.5-inch NeXtScale SSDs - 6 Gb SATA - Enterprise Performance (10+ DWPD)																			
00YC350	Intel S3710 200GB Enterprise Performance SATA 2.5" SSD for NeXtScale	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y		
00YC355	Intel S3710 400GB Enterprise Performance SATA 2.5" SSD for NeXtScale	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y		
2.5-inch NeXtScale SSDs - 6 Gb SATA - Enterprise Entry (<3 DWPD)																			
00FN020	120GB SATA 2.5" MLC Enterprise Value SSD for NeXtScale System	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y		
00YC430	240GB Enterprise Entry SATA 2.5" SSD for NeXtScale	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y		
00YC440	960GB Enterprise Entry SATA 2.5" SSD for NeXtScale	N	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	Y		

Operating system support

The adapter supports the following operating systems:

Tip: This table is automatically generated based on data from [Lenovo ServerProven](#).

Table 21. Operating system support for N2215 SAS/SATA HBA, 47C8675

Operating systems	x3850/3950 X6 (3837)	x3850/3950 X6 (6241, E7 v2)	x3850/3950 X6 (6241, E7 v3)	x3850/3950 X6 (6241, E7 v4)	x3250 M6 (3633)	nx360 M5 (5465)	x3500 M5 (5464)	x3550 M5 (5463)	x3550 M5 (8869)	x3650 M5 (5462)	x3650 M5 (8871)
Microsoft Windows Server 2008 R2	Y	Y	Y	N	N	N	Y	Y	Y	Y	N
Microsoft Windows Server 2012	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Microsoft Windows Server 2012 R2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Microsoft Windows Server 2016	N	Y ¹	Y ¹	Y ¹	Y	Y	Y	Y	Y	Y	Y
Microsoft Windows Server 2019	N	N	N	Y	Y	N	N	N	Y	N	Y
Microsoft Windows Server version 1709	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
Microsoft Windows Server version 1803	N	N	N	N	N	N	N	N	Y	N	Y
Red Hat Enterprise Linux 6 Server x64 Edition	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Red Hat Enterprise Linux 7	N	N	N	Y	N	N	N	N	N	N	N
Red Hat Enterprise Linux 8.0	N	N	N	Y	N	N	N	N	N	N	N
SUSE Linux Enterprise Server 11 for AMD64/EM64T	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 11 with Xen for AMD64/EM64T	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 12	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 12 with Xen	N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
SUSE Linux Enterprise Server 15	N	N	Y	Y	Y	Y	N	N	Y	N	Y
SUSE Linux Enterprise Server 15 with Xen	N	N	Y	Y	Y	Y	N	N	Y	N	Y
VMware vSphere 5.1 (ESXi)	Y	Y	N	N	N	Y	Y	Y	N	Y	N
VMware vSphere Hypervisor (ESXi) 5.5	Y	Y	Y	N	Y	N	Y	Y	Y	Y	Y
VMware vSphere Hypervisor (ESXi) 6.0	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
VMware vSphere Hypervisor (ESXi) 6.5	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y
VMware vSphere Hypervisor (ESXi) 6.7	N	N	N	Y	Y	Y	Y	N	Y	N	Y

¹ [in box driver support only]

Warranty

The N2215 SAS/SATA HBA carries a 1-year limited warranty. When installed in a supported System x server, the adapter assumes your system's base warranty and any Lenovo warranty service upgrade purchased for the system.

Physical specifications

The N2215 SAS/SATA HBA has the following physical specifications:

Dimensions (approximate):

- Height: 17 mm (0.7 in.)
- Width: 69 mm (2.7 in.)
- Depth: 170 mm (6.7 in.)
- Weight: 88 g (0.2 lb)

Shipping dimensions (approximate):

- Height: 51 mm (2.0 in.)
- Width: 143 mm (5.6 in.)
- Depth: 238 mm (9.4 in.)
- Weight: 310 g (0.7 lb)

Operating environment

The N2215 SAS/SATA HBA is supported in the following environment:

- Temperature (operational): 5 - 40 °C (41 - 104 °F) at 0 - 5,000 m (0 - 16,404 ft)
- Temperature (non-operational): -40 - 60 °C (-40 - 140 °F) at 10,700 m (35,105 ft)
- Relative humidity: 8% - 93% (non-condensing)
- Maximum altitude: 10,700 m (35,105 ft)

Agency approvals

The N2215 SAS/SATA HBA conforms to the following regulations:

- UL
- cUL
- IEC60950
- EMC
- FCC
- TUV
- CE
- VCCI
- BSMI
- C-tick
- KC

Related publications and links

For more information, see the following documents:

- US Announcement Letter
<http://ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=ca&&htmlfid=897/ENUS113-161>
- 6 Gb and 12 Gb MPT2SAS Controller documentation
<http://ibm.com/support/entry/portal/docdisplay?Indocid=MIGR-5088601>
- N2215 support and downloads
http://ibm.com/support/entry/portal/search_results?q=N2215
- ServerProven
<http://www.lenovo.com/us/en/serverproven/>

Related product families

Product families related to this document are the following:

- [Host Bus Adapters](#)

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