



IBM Multimedia Enclosure for Lenovo

Product Guide (withdrawn product)

The IBM Multimedia Backup Enclosure for Lenovo® (Machine Type 6190) is an external, 1U rack-mount backup enclosure that can accommodate up to two LTO Ultrium half-high tape drives, up to two RDX docking stations, or up to four DVD-RAM drives. It provides flexibility in choosing the type of the backup media, including support for mixed drive types within the same enclosure.

The drives in the Multimedia Backup Enclosure offer SAS, USB, and Fibre Channel (FC) host connectivity options, and they support connectivity to a wide range of Lenovo System x® and ThinkServer® servers and Flex System™ compute nodes to help protect critical data on these systems.

The following figure shows the IBM Multimedia Backup Enclosure for Lenovo.



Figure 1. IBM Multimedia Backup Enclosure for Lenovo

Did you know?

The Multimedia Backup Enclosure enables the performance and capacity enhancements of data backup with half-high LTO Ultrium 6 and 5 tape drives, and it provides extra versatility with RDX removable disk drives and DVD-RAM options.

With IBM disk and backup storage offerings that are available from Lenovo, Lenovo can be your trusted partner that offers "one stop shop" and single point of contact for the delivery of leading edge technologies and innovations from Lenovo and other leading IT vendors. Lenovo offerings can satisfy the wide range of your end-to-end infrastructure needs, including handheld devices, notebooks, personal computers, servers, storage, networking, services, management software, and financing.

Key features

The Multimedia Backup Enclosure delivers the following features:

- Entry-level LTO Ultrium tape drives, along with RDX removable disk backup and DVD-RAM options, for reliable and flexible data backup and security.
- Two drive bays that can hold tape drives, RDX drives, DVD-RAM drives, or any combination of two of these drive types.
- Support for up to two half-high LTO Ultrium 5 or Ultrium 6 tape drives (one Ultrium drive per drive bay), up to two RDX drives (one RDX drive per drive bay), or up to four DVD-RAM drives (one or two DVD-RAM drives per drive bay).
- Native data transfer rate of up to 140 Mbps (Ultrium 5), or up to 160 Mbps (Ultrium 6), or up to 100 MBps (RDX), or up to 2.7 MBps (DVD-RAM) per drive.
- Native capacity of up to 1.5 TB (Ultrium 5), or up to 2.5 TB (Ultrium 6), or up to 2 TB (RDX), or up to 9.4 GB (DVD-RAM) per one drive.
- Space-efficient rack mount design to accommodate up to four storage devices in a 1U rack space.
- USB, SAS, and FC attachments for connection to select System x and ThinkServer servers and Flex System compute nodes that run Microsoft Windows and Linux server operating systems.
- Support from an extensive system of backup software vendors.

Components and connectors

The following figure shows the front of the Multimedia Backup Enclosure.



Figure 2. Front view of the Multimedia Backup Enclosure

The following figure shows the rear of the Multimedia Backup Enclosure.

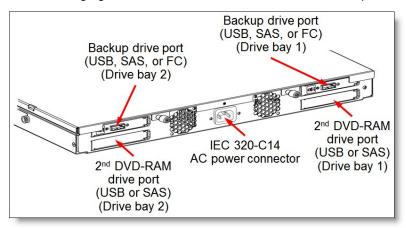


Figure 3. Rear view of the Multimedia Backup Enclosure

System specifications

The following table lists the Multimedia Backup Enclosure system specifications.

Table 1. System specifications

Components	Specification	
Form factor	1U rack mount	
Drive technology	 LTO Ultrium 5 half-high drives LTO Ultrium 6 half-high drives RDX drives DVD-RAM drives 	
Drive interface	 SAS (LTO Ultrium): 1x 6 Gb SAS x1 port (Mini-SAS SFF-8088) SAS (DVD-RAM): 1x 3 Gb SAS x1 port (Mini-SAS SFF-8088) FC (LTO Ultrium): 1x 8 Gb FC port (SW fiber optics, LC connector) USB (RDX): 1x USB 3.0 Type B port USB (DVD-RAM): 1x USB 2.0 Type B port 	
Number of drive bays	2	
Number of drives	Up to 2 LTO Ultrium or RDX drives (one LTO Ultrium or RDX drive per drive bay), or up to 4 DVD-RAM drives (one or two DVD-RAM drives per drive bay). Intermix of different drive types is supported within the same enclosure.	
Number of cartridge slots	1 per drive	
Cartridge capacity	 LTO5: 1.5 TB native; up to 3.0 TB compressed (with 2:1 compression ratio) LTO6: 2.5 TB native; up to 6.25 TB compressed (with 2.5:1 compression ratio) RDX: 320 GB, 500 GB, 1 TB, or 2 TB native DVD-RAM: Up to 4.7 GB (single-layer) or 9.4 GB (dual-layer) native 	
Data transfer rate	 LTO5: Up to 140 MB/s native; up to 280 MB/s compressed (with 2:1 compression ratio) LTO6: Up to 160 MB/s native; up to 400 MB/s compressed (with 2.5:1 compression ratio) RDX: Up to 100 MB/s native DVD-RAM: Up to 2.7 MB/s native read, up to 1.3 Mb/s native write 	
Security features	Application Managed Encryption (AME) for LTO5 and LTO6 drives	
Cooling	Two fixed internal fans	
Power supply	One 140 W AC fixed power supply with IEC 320-C14 power connector	
Hot-swap parts	None	
Dimensions	Height: 43 mm (1.7 in.); Width: 480 mm (18.9 in.); Depth: 454 mm (17.9 in.)	
Weight	Empty: 5.1 kg (10.2 lb.); Typical: 7.1 kg (15.6 lb.)	
Warranty	One-year customer-replaceable unit and onsite warranty with 9x5 next business day terms.	
Service and support	Optional warranty service upgrades are available through Lenovo Services: 24x7 coverage, 2-hour or 4-hour response time, up to 5 years of warranty extension.	
Host operating systems	Microsoft Windows Server 2008, 2008 R2, 2012 and 2012 R2; Red Hat Enterprise Linux (RHEL) 5, 6, and 7; SUSE Linux Enterprise Server (SLES) 10 and 11.	
ISV backup software compatibility	Arcserve Backup, ASG Time Navigator, Barracuda Yosemite Backup, CommVault Simpana, Dell NetVault Backup, EMC NetWorker, HP OpenView Storage Data Protector, IBM Spectrum Protect, Microsoft System Center Data Protection Manager, Symantec Backup Exec, Symantec NetBackup	

Standard models

The following table lists the ordering information for the Multimedia Backup Enclosure.

Table 2. Part numbers and feature codes for ordering the Multimedia Backup Enclosure

Description	Part number	Feature code (MTM* 6190-1U3)
IBM Multimedia Backup Enclosure	61901UX	AS5Y

^{*} MTM = Machine Type (first four digits); Model (last three digits and letters)

The part number for the Multimedia Backup Enclosure includes the following items:

- One enclosure with two drive bays
- Rack mount kit (slide rails)
- Cable management arm
- Rack power cord (2.8m 10A/100-250V, C13 to IEC 320-C14)
- Warranty information
- Documentation CD that includes Setup, Operator, and Service Guide

Backup drive options

The Multimedia Backup Enclosure has two drive bays, and each drive bay that can accommodate one LTO Ultrium half-high tape drive, or one RDX drive, or one or two DVD-RAM drives. Different drive types can be intermixed within the same enclosure.

The following table lists ordering information for the backup drives for the Multimedia Backup Enclosure.

Table 3. Backup drive options

Description	Part number	Feature code	Max qty per one enclosure
LTO Ultrium half-high tape drives: 6 Gb SAS			
6190 HH LTO5 SAS Tape Drive	00NV402	AS1R	2
6190 HH LTO6 SAS Tape Drive	00NV404	AS1X	2
LTO Ultrium half-high tape drives: 8 Gb FC			
6190 LTO Ultrium 5 Half High Fibre Drive Sled	00NV403	AS1V	2
6190 LTO Ultrium 6 Half High Fibre Drive Sled	00NV405	AS20	2
RDX drives: USB 3.0			
6190 RDX 3.0 Dock/320GB Cartridge Bundle	00NV406	AS0S	2
6190 RDX 3.0 Dock/500GB Cartridge Bundle	00NV407	AS0T	2
6190 RDX 3.0 Dock/1.0TB Cartridge Bundle	00NV408	AS0U	2
6190 RDX 3.0 Dock/2.0TB Cartridge Bundle	00NV455	AS72	2
DVD-RAM drives: 3 Gb SAS			
6190 SATA/SAS DVD-RAM Sled Drive	00NV409	AS0P	2
6190 SATA/SAS DVD-RAM Drive/Cable/Card	00NV410	AS0Q	2*
DVD-RAM drives: USB 2.0			
6190 USB DVD-RAM Sled Drive	00NV411	AS17	2
6190 USB DVD-RAM Drive/Cable/Card	00NV412	AS16	2**

^{*} The second DVD-RAM drive for the 6190 SATA/SAS DVD-RAM Sled Drive (part number 00NV409).

^{*} The second DVD-RAM drive for the 6190 USB DVD-RAM Sled Drive (part number 00NV411).

The LTO Ultrium half-high SAS tape drive part numbers (00NV402 and 00NV404) do not include SAS host connectivity cables; one SAS cable must be ordered with the drive (see Table 4 for ordering information).

The LTO Ultrium half-high FC tape drive part numbers (00NV403 and 00NV405) include one 5 m LC-LC SW Fiber Optics Cable for host connectivity.

The USB DVD-RAM option part numbers (00NV411 and 00NV412) include one 3 m USB 2.0 cable (USB Type B [drive] - USB Type A [host]) for host connectivity.

The USB RDX drive option part numbers (00NV406, 00NV407, 00NV408, and 00NV455) include one 2.7 m USB 3.0 cable (USB Type B [drive] - USB Type A [host]) for host connectivity.

The SAS DVD-RAM option part numbers (00NV409 and 00NV410) include one 5.5 m Mini-SAS (SFF-8088) to Mini-SAS (SFF-8088) cable for host connectivity.

Table 4. SAS cable options

Description	Part number	Feature code	Maximum quantity
SAS connectivity cables: Mini-SAS (SFF-8088 host) to Mini-SAS (SFF-8088 tape)			
Mini-SAS to Mini-SAS Cable (5.5 m)	00NV418	AS11	4
SAS connectivity cables: Mini-SAS HD (SFF-8644 host) to Mini-SAS (SFF-8088 tape)			
HD-SAS Cable to Mini-SAS (4 m)	00NV419	AS10	4

Backup media

The LTO Ultrium half-high drive options include one cleaning cartridge and one test cartridge. The DVD-RAM drive options include one test disk. The RDX drive options include one data cartridge.

The following table lists backup media that can be ordered for the drives in the Multimedia Enclosure.

Table 5. Backup media options

Description	Part number	Feature code	
LTO Ultrium Cleaning cartridge			
Ultrium Cleaning Cartridge (universal)	00NA017	AS1E	
LTO Ultrium data cartridges			
Ultrium 5 Data Cartridges 5-Pack	00NA023	AS23	
Ultrium 6 Data Cartridges 5-Pack	00NA025	AS24	
RDX data cartridges	RDX data cartridges		
320 GB RDX Data Cartridge	00NV413	AS0V	
500 GB RDX Data Cartridge	00NV414	AS0N	
1 TB RDX Data Cartridge	00NV415	EU01	
2 TB RDX Data Cartridge	00NV430	EU2T	

LTO Ultrium Drives support the following backward compatibility for the previous generations of media:

- LTO Ultrium 6 Tape Drives can read and write LTO Ultrium 6 and Ultrium 5 data cartridges, and can read Ultrium 4 data cartridges.
- LTO Ultrium 5 Tape Drives can read and write LTO Ultrium 5 and Ultrium 4 data cartridges, and can read Ultrium 3 data cartridges.

Power cables

The Multimedia Backup Enclosure comes standard with one 2.8m 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable (part number 00NA063). A line cord also can be ordered, if needed.

The part numbers and feature codes to order the power cables (one power cable per enclosure) are listed in the following table.

Table 6. Part numbers and feature codes for ordering power cables

Description	Part number	Feature code
Line cords		
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	00NA027	AS29
2.8m, 10A/230V, C13 to CEE7-VII (Europe) Line Cord	00NA029	AS2A
2.8m, 10A/230V, C13 to DK2-5a (Denmark) Line Cord	00NA031	AS2B
2.8m, 10A/230V, C13 to BS 1363/A (UK) Line Cord	00NA033	AS2C
2.8m, 10A/230V, C13 to SI 32 (Israel) Line Cord	00NA035	AS2D
2.8m, 10A/230V, C13 to SEV 1011-S24507 (Sws) Line Cord	00NA037	AS2E
2.8m, 10A/230V, C13 to SABS 164 (South Africa) Line Cord	00NA039	AS2F
2.8m, 10A/230V, C13 to CEI 23-16 (Italy) Line Cord	00NA041	AS2G
2.8m, 10A/230V, C13 to AS/NZS 3112 (Aus/NZ) Line Cord	00NA043	AS2H
2.8m, 10A/208V, C13 to NEMA 6-15P (US) Line Cord	00NA045	AS2J
2.8m, 10A/220V, C13 to IRAM 2073 (Argentina) Line Cord	00NA047	AS2K
2.8m, 10A/220V, C13 to CNS 10917-3 (Taiwan) Line Cord	00NA049	AS2L
2.8m, 10A/220V, C13 to GB 2099.1 (China) Line Cord	00NA051	AS2M
2.8m, 10A/110V, C13 to CNS 10917-3 (Taiwan) Line Cord	00NA053	AS2N
2.8m, 12A/100V, C13 to JIS C-8303 (Japan) Line Cord	00NA055	AS2P
2.8m, 12A/220V, C13 to KSC 8305 (S. Korea) Line Cord	00NA057	AS2Q
2.8m, 10A/240V, C13 to IS 6538 (India) Line Cor	00NA059	AS2R
2.8m, 10A/220V, C13 to NBR 6147 (Brazil) Line Cord	00NA061	AS2T
Rack power cord		
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	00NA063	AS2U

Physical specifications

The Multimedia Backup Enclosure has the following dimensions and weight (approximate):

- Height: 43 mm (1.7 in.)
- Width: 480 mm (18.9 in.)
- Depth: 454 mm (17.9 in.)
- Weight:13 kg (28.7 lb)
 - Empty: 5.1 kg (10.2 lb.)
 - Typical: 7.1 kg (15.6 lb.)

Operating environment

The Multimedia Backup Enclosure is supported in the following environment:

• Air temperature:

Operating: 10 °C - 40 °C (50 °F - 104 °F)
 Non-operating: -40 °C - 65 °C (-40 °F - 149 °F)

Maximum altitude: 3,048 m (10,000 ft)

• Humidity:

Operating: 20% - 80% (non-condensing)

Non-operating: 5% - 95%

• Electrical power:

Voltage: 100 V AC - 240 V AC
 Frequency: 50 Hz - 60 Hz

Input kilovolt-amperes (approximately): 0.047 kVA @ 120 V AC

Power supply: 140 W

Warranty options

The Multimedia Backup Enclosure has a one-year CRU and onsite warranty with 9x5/next business day (NBD) terms. Lenovo offers the service upgrades through warranty maintenance upgrades and post-warranty maintenance agreements with a well-defined scope of services, including service hours, response time, term of service, and service agreement terms and conditions.

Lenovo warranty service upgrade offerings are country-specific; that is, each country might have its own service types, service levels, response times, and terms and conditions. Not all covered types of warranty service upgrades might be available in a particular country or area. For more information about Lenovo warranty service upgrade offerings that are available in your country, see the Lenovo Services Product Selector that is available at this website:

https://www-304.ibm.com/sales/gss/download/spst/servicepac

The warranty service definitions for the Multimedia Backup Enclosure are listed in the following table.

Table 7. Warranty service definitions

Term	Description
On-site service	A service technician arrives at the client's location for equipment service.
24x7x2 hour	A service technician is scheduled to arrive at the client's location within two hours after remote problem determination is completed. Lenovo provides service around the clock, every day, including Lenovo holidays.
24x7x4 hour	A service technician is scheduled to arrive at the client's location within four hours after remote problem determination is completed. Lenovo provides service around the clock, every day, including Lenovo holidays.
9x5 next business day	A service technician is scheduled to arrive at the client's location on the business day after remote problem determination is completed. Lenovo provides service 8:00 am - 5:00 pm in the client's local time zone, Monday - Friday, excluding Lenovo holidays. Calls received after 4:00 pm local time require an extra business day for service dispatch. Next business day service is not guaranteed.

In general, the following types of Lenovo warranty service upgrades for the Multimedia Backup Enclosure are available:

- Up to five years of 9x5 or 24x7 service coverage
- Onsite response from next business day to 4 or 2 hours
- Up to five years of warranty extension for all service levels in one year increments

Regulatory compliance

The Multimedia Backup Enclosure conforms to the following regulations:

- FCC: Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, Class A
- European Union Council Directive 2004/108/EC
- EN 55022, Class A
- Australia and New Zealand Class A Statement
- Japan VCCI Class A statement
- People's Republic of China Electromagnetic Interference (EMI) Class A Statement
- Taiwan EMI Class A Statement
- Korea EMI Class A Statement
- Russia EMI Class A Statement

Interoperability

Lenovo provides end-to-end storage compatibility testing to deliver interoperability throughout the network. The backup drives in the Multimedia Backup Enclosure support attachment to Lenovo System x, ThinkServer, and Flex System hosts by using USB, SAS, or FC storage connectivity interfaces.

Note: Tables that are provided in this section are for ordering reference purposes only. End-to-end storage configuration support *must* be verified through the System Storage Interoperation Center (SSIC): http://ibm.com/systems/support/storage/ssic

USB connectivity

The RDX drives can be connected to an external USB 3.0 port on System x and ThinkServer servers and Flex System compute nodes.

The DVD-RAM drives with the USB interface can be connected to an external USB 2.0 port on System x and ThinkServer servers.

SAS connectivity

The following table lists currently available System x and ThinkServer SAS adapters that are compatible with the LTO Ultrium SAS tape drives in the Multimedia Backup Enclosure.

Table 8. SAS adapters

Description	Part number
System x SAS HBAs	
6Gb SAS HBA (1x Mini-SAS x4 SFF-8088 external port)	46M0907
N2125 SAS/SATA HBA (6 Gb SAS, 2x Mini-SAS x4 SFF-8088 external ports)	46C9010
N2225 SAS/SATA HBA (12 Gb SAS, 2x Mini-SAS HD x4 SFF-8644 external ports)	00AE912
N2226 SAS/SATA HBA (12 Gb SAS, 4x Mini-SAS HD x4 SFF-8644 external ports)	00AE916
ThinkServer SAS HBAs	
Lenovo ThinkServer 9300-8e PCIe 12Gb 8 Port External SAS Adapter by LSI (2x Mini-SAS HD x4 SFF-8644 external ports)	4XB0F28703

FC connectivity

The LTO Ultrium drives in the Multimedia Backup Enclosure support FC switch-based attachments for Flex System compute nodes. The Flex System FC adapters that are listed in the following table are compatible with the LTO Ultrium drives in the Multimedia Backup Enclosure.

Table 9. FC adapters

Description	Part number
Flex System HBAs: 8 Gb FC	
Flex System FC3052 2-port 8Gb FC Adapter	95Y2375
Flex System FC3172 2-port 8Gb FC Adapter	69Y1938
Flex System HBAs: 16 Gb FC	
Flex System FC5052 2-port 16Gb FC Adapter	95Y2386
Flex System FC5054 4-port 16Gb FC Adapter	95Y2391

Networking switches

The following table lists currently available FC embedded switches and pass-thru modules for Flex System that can be used with the LTO Ultrium drives in Multimedia Backup Enclosure solutions.

Table 10. Ethernet and FC embedded switches for Flex System

Description	Part number	
8 Gb FC		
Lenovo Flex System FC3171 8Gb SAN Switch	69Y1930	
16 Gb FC		
Lenovo Flex System FC5022 16Gb SAN Scalable Switch	88Y6374	
Lenovo Flex System FC5022 24-port 16Gb SAN Scalable Switch (includes two 16 Gb SFPs)	00Y3324	
Lenovo Flex System FC5022 24-port 16Gb ESB SAN Scalable Switch	90Y9356	
Pass-thru modules (require a compatible external switch)		
Lenovo Flex System FC3171 8Gb SAN Pass-thru	69Y1934	

For more information, see the list of Product Guides in the Flex System Switches and Pass-thru Modules category: http://lenovopress.com/flexsystem/iomodules

The following table lists currently available FC SAN rack switches that can be used with the Flex System modules in Multimedia Backup Enclosure solutions.

Table 11. FC SAN rack switches

Description	Part number
8 Gb FC	
Brocade 300 FC SAN Switch	3873AR1
Lenovo B300, 8 ports activated w/ 8Gb SWL SFPs, 1 PS, Rail Kit	3873AR3
Lenovo B6505, 12 ports activated w/ 8Gb SWL SFPs, 1 PS, Rail Kit	3873AR4
Lenovo B6510, 24 ports activated w/ 8Gb SWL SFPs, 2 PS, Rail Kit	3873BR2
16 Gb FC	
Brocade 6505 FC SAN Switch	3873AR2

Brocade 6510 FC SAN Switch	3873BR1
Lenovo B6505, 12 ports activated w/ 16Gb SWL SFPs, 1 PS, Rail Kit	3873AR5
Lenovo B6510, 24 ports activated w/ 16Gb SWL SFPs, 2 PS, Rail Kit	3873BR3

For more information, see the list of Product Guides in the SAN Rack Switches category: http://lenovopress.com/storage/switches/rack?rt=product-guide

Operating systems

The backup drives in the Multimedia Backup Enclosure support host attachments to the System x, ThinkServer, and Flex System servers with the following operating systems:

- Microsoft:
 - Microsoft Windows Server 2012 R2
 - Microsoft Windows Server 2012
 - Microsoft Windows Server 2008 R2
 - Microsoft Windows Server 2008
- Red Hat:
 - Red Hat Enterprise Linux 7
 - Red Hat Enterprise Linux 6
 - Red Hat Enterprise Linux 5
- SUSE:
 - SUSE Linux Enterprise Server 11
 - SUSE Linux Enterprise Server 10

ISV backup software compatibility

The Independent Software Vendors (ISVs) indicate support for the backup drives in the Multimedia Backup Enclosure for the following ISV backup software:

- Arcserve Backup
- ASG Time Navigator
- Barracuda Yosemite Backup
- CommVault Simpana
- Dell NetVault Backup
- EMC NetWorker
- HP OpenView Storage Data Protector
- IBM Spectrum Protect
- Microsoft System Center Data Protection Manager
- Symantec Backup Exec
- Symantec NetBackup

Note: Not all ISVs and software that are listed here might support all possible configurations. Support *must* be verified through an ISV software compatibility matrix which can be found on the respective ISV's website.

Rack cabinets

The following table lists the rack cabinets that are offered by Lenovo that can be used in Multimedia Backup Enclosure solutions.

Table 12. Rack cabinets

Description	Part number
11U Rack Office Enablement Kit	201886X
25U S2 Standard Rack	93072RX
25U Static S2 Standard Rack	93072PX
42U S2 Standard Rack	93074RX
42U 1100mm Enterprise V2 Dynamic Rack	93634PX
42U 1100mm Enterprise V2 Dynamic Expansion Rack	93634EX
42U 1200mm Deep Dynamic Rack	93604PX
42U 1200mm Deep Static Rack	93614PX
42U Enterprise Rack	93084PX
42U Enterprise Expansion Rack	93084EX

For more information, see the list of Product Guides in the Rack cabinets and options category that is available at this website:

http://lenovopress.com/systemx/rack

Power distribution units

The following table lists the power distribution units (PDUs) that are offered by Lenovo that can be used in Multimedia Backup Enclosure solutions.

Table 13. Power distribution units

Description	Part number
0U Basic PDUs	
0U 24 C13 16A 3 Phase PDU with IEC 309 P+N+Gnd line cord	46M4122
0U 24 C13 30A 3 Phase PDU with NEMA L21-30P line cord	46M4125
0U 24 C13 30A PDU with NEMA L6-30P line cord	46M4128
0U 24 C13 32A PDU with IEC 309 P+N+Gnd line cord	46M4131
0U 12 C19/12 C13 32A 3 Phase PDU with IEC 309 3P+N+Gnd line cord	46M4143
0U 12 C19/12 C13 60A 3 Phase PDU with CS8365L 3P+Gnd line cord	46M4140
Switched and Monitored PDUs	
1U 9 C19/3 C13 Switched and Monitored DPI PDU (without line cord)	46M4002
1U 9 C19/3 C13 Switched and Monitored 60A 3 Phase PDU with IEC 309 3P+Gnd line cord	46M4003
1U 12 C13 Switched and Monitored DPI PDU (without line cord)	46M4004
1U 12 C13 Switched and Monitored 60A 3 Phase PDU with IEC 309 3P+Gnd line cord	46M4005
0U 24 C13 Switched and Monitored 30A PDU with NEMA L6-30P line cord	46M4116
0U 24 C13 Switched and Monitored 32A PDU with IEC 309 P+N+Gnd line cord	46M4119
0U 12 C19/12 C13 Switched and Monitored 32A 3 Phase PDU with IEC 309 3P+N+Gnd cord	46M4137
0U 12 C19/12 C13 Switched and Monitored 50A 3 Phase PDU with CS8365L 3P+Gnd cord	46M4134

Ultra Density Enterprise PDUs (9x IEC 320 C13 + 3x IEC 320 C19 outlets)	
Ultra Density Enterprise C19/C13 PDU Module (without line cord)	71762NX
, , ,	71762NX 71763NU
Ultra Density Enterprise C19/C13 PDU 60A/208V/3ph with IEC 309 3P+Gnd line cord	71763NU
C13 Enterprise PDUs (12x IEC 320 C13 outlets)	100110010
DPI C13 Enterprise PDU+ (without line cord)	39M2816
DPI Single Phase C13 Enterprise PDU (without line cord)	39Y8941
C19 Enterprise PDUs (6x IEC 320 C19 outlets)	1
DPI Single Phase C19 Enterprise PDU (without line cord)	39Y8948
DPI 60A 3 Phase C19 Enterprise PDU with IEC 309 3P+G (208 V) fixed line cord	39Y8923
Front-end PDUs (3x IEC 320 C19 outlets)	
DPI 30amp/125V Front-end PDU with NEMA L5-30P line cord	39Y8938
DPI 30amp/250V Front-end PDU with NEMA L6-30P line cord	39Y8939
DPI 32amp/250V Front-end PDU with IEC 309 2P+Gnd line cord	39Y8934
DPI 60amp/250V Front-end PDU with IEC 309 2P+Gnd line cord	39Y8940
DPI 63amp/250V Front-end PDU with IEC 309 2P+Gnd line cord	39Y8935
Universal PDUs (7x IEC 320 C13 outlets)	
DPI Universal Rack PDU with US LV and HV line cords	39Y8951
DPI Universal Rack PDU with CEE7-VII Europe line cord	39Y8952
DPI Universal Rack PDU with Denmark line cord	39Y8953
DPI Universal Rack PDU with Israel line cord	39Y8954
DPI Universal Rack PDU with Italy line cord	39Y8955
DPI Universal Rack PDU with South Africa line cord	39Y8956
DPI Universal Rack PDU with UK line cord	39Y8957
DPI Universal Rack PDU with AS/NZ line cord	39Y8958
DPI Universal Rack PDU with China line cord	39Y8959
DPI Universal Rack PDU (Argentina)	39Y8962
DPI Universal Rack PDU (Brazil)	39Y8960
DPI Universal Rack PDU (India)	39Y8961
NEMA PDUs (6x NEMA 5-15R outlets)	
DPI 100-127V PDU with Fixed NEMA L5-15P line cord	39Y8905
Line cords for PDUs that ship without a line cord	
DPI 32a Line Cord (IEC 309 3P+N+G)	40K9611
DPI 32a Line Cord (IEC 309 P+N+G)	40K9612
DPI 63a Cord (IEC 309 P+N+G)	40K9613
DPI 30a Line Cord (NEMA L6-30P)	40K9614
DPI 60a Cord (IEC 309 2P+G)	40K9615
DPI Australian/NZ 3112 Line Cord	40K9617

For more information, see the list of Product Guides in the Power infrastructure category: http://lenovopress.com/systemx/power

Uninterruptible power supply units

The following table list the uninterruptible power supply (UPS) units that are offered by Lenovo that can be used in Multimedia Backup Enclosure solutions.

Table 14. Uninterruptible power supply units

Description	Part number
RT1.5kVA 2U Rack or Tower UPS (100-125VAC)	55941AX
RT1.5kVA 2U Rack or Tower UPS (200-240VAC)	55941KX
RT2.2kVA 2U Rack or Tower UPS (100-125VAC)	55942AX
RT2.2kVA 2U Rack or Tower UPS (200-240VAC)	55942KX
RT3kVA 2U Rack or Tower UPS (100-125VAC)	55943AX
RT3kVA 2U Rack or Tower UPS (200-240VAC)	55943KX
RT5kVA 3U Rack or Tower UPS (200-240VAC)	55945KX
RT6kVA 3U Rack or Tower UPS (200-240VAC)	55946KX
RT8kVA 6U Rack or Tower UPS (200-240VAC)	55948KX
RT11kVA 6U Rack or Tower UPS (200-240VAC)	55949KX
RT8kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)	55948PX
RT11kVA 6U 3:1 Phase Rack or Tower UPS (380-415VAC)	55949PX

For more information, see the list of Product Guides in the Power infrastructure category: http://lenovopress.com/systemx/power

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Related publications and links

For more information, see the following resources:

- Lenovo Storage product page: http://www.lenovo.com/systems/storage
- US Announcement Letter IBM Multimedia Backup Enclosure for Lenovo: http://ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=ca&&htmlfid=897/ENUS114-129
- Standalone Solutions Configuration Tool: http://ibm.com/support/entry/portal/docdisplay?Indocid=MIGR-62168
- System Storage Interoperation Center (SSIC): http://ibm.com/systems/support/storage/ssic

Related product families

Product families related to this document are the following:

Backup Units

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