



hp surestore 14x series
optical drives & libraries



range of optical
jukeboxes now scales
to over 2 tb storage

The introduction of a the HP SureStore Optical 14x Series drive delivers a 70% increase in capacity (9.1 GB). Permanent storage and easy access to massive amounts of reference data is now more economical than ever.

audience needs

Sectors such as financial, legal, medical and government face increasing amounts of data, whilst the speed with which that data is accessed can impact significantly on their ability to deliver on customer service improvements and regulatory obligations.

These optical drives and libraries are ideal for any organisation needing large amounts of archival data nearline, easily accessed, but with the guaranteed permanence of WORM media.

benefits and features

massive capacity, outstanding performance

- 14x drive with 9.1 GB capacity enables storage of over 2 TB of information in one library.
- 4x or 8x jukeboxes can be upgraded to 14x capacity.
- Sustained transfer rate of 6.1 MB/second.

real business enhancements

- By increasing retrieval speed and archiving efficiency these libraries can improve customer service, reduce back-office costs, provide data for audits and improve the way information is analysed and shared.

complete flexibility

- Option of standalone drives and libraries with a range of capacities offer a solution to every need.
- Fully compatible with industry-leading applications.

hp service and support

- One-year, next-day, on-site warranty. C1113M and C1113J are 1 year, parts only.
- Three-year SupportPack warranty upgrade available.
- Technical information and support from HP's European Customer Care Centre.



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ordering information

14x drives and libraries with 9.1 GB drives

C1113M	mechanism	9.1 GB, 1 slot, 1 drive
C1114M	9100mx	9.1 GB, 1 slot, 1 drive
C1118M	220mx	218 GB, 24 slots, 1 drive
C1119M	220mx	218 GB, 24 slots, 2 drives
C1150M	300mx	291 GB, 32 slots, 2 drives
C1160M	600mx	582 GB, 64 slots, 4 drives
C1170M	700mx	691 GB, 76 slots, 2 drives
C1104M	1200mx	1165 GB, 128 slots, 4 drives
C1105M	1200mx	1165 GB, 128 slots, 6 drives
C1111M	2200mx	2166 GB, 238 slots, 4 drives
C1107M	2200mx	2166 GB, 238 slots, 6 drives
C1110M	2200mx	2166 GB, 238 slots, 10 drives

Upgrade kits are available to add drives and/or slots to the libraries

Upgrade kits are available to convert 4x and 8x libraries to 14x

optical media

C7983A	1 optical disk – 9.1 GB, rewritable, 4096 bytes/sector
C7984A	1 optical disk – 9.1 GB, WORM, 4096 bytes/sector
C7985A	1 optical disk – 8.6 GB, rewritable, 2048 bytes/sector
C7986A	1 optical disk – 8.6 GB, WORM, 2048 bytes/sector

supportpacks

H4438A/E	C1114 – HP SupportPack 3-year, 4-hour response
H4437A/E	C1118, C1119 – HP SupportPack 3-year, 4-hour response
H5532A/E	C1150, C1170 – HP SupportPack 3-year, 4-hour response
H5533A/E	C1160, C1104, C1105 – HP SupportPack 3-year, 4-hour response
H4435A/E	C1160, C1104, C1105 – HP SupportPack 3-year, 4-hour response, 24x7
H5534A/E	C1111, C1107, C1110 – HP SupportPack 3-year, 4-hour response
H4436A/E	C1111, C1107, C1110 – HP SupportPack 3-year, 4-hour response, 24x7



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technical specifications

design characteristics	9100mx	220mx	300mx	600mx	700mx	1200mx	2200mx	
model no	9100mx	220mx	300mx	600mx	700mx	1200mx	2200mx	
capacity (gb)	9.1	218.4	291.2	582.4	691.6	1164.8	2165.8	
number of slots	1	24	32	64	76	128	238	
number of drives	1	1 or 2	2	4	2	4 or 6	4, 6 or 10	
avg. disk exchange time*	N/A	12s	6.5s	6.5s	6.5s	6.5s	6.5s	
drive characteristics								
disk capacity 9.1 GB	average seek		25 ms		cartridges read/write error rate		<1 per 10 ¹⁴ bytes	
	short seek (10 ms)		6 ms		disk load/unload time			
	average latency		10 ms		Load (w/spin-up)		5.5 s (avg)	
	average access time		35 ms		Unload (w/spin-down)		3.0 s (avg)	
	effective access time**		14.5 ms		buffer size 2 MB			
	rotational speed		3000 rpm		Read Buffering		Read aheads	
	data transfer rate (software system dependent)				Write Buffering		Immediate reporting, write re-ordering	
	Reads (max. sustained)		6.1 MB/s					
	Writes (max. sustained)		3.1 MB/s					
	Burst (synchronous)		10 MB/s					
	Burst (asynchronous)		4 MB/s					
dimensions								
model no	9100mx		220mx		300mx,600mx,700mx		1200mx,2200mx	
height	100 mm (3.9in)		624.7 mm (24.6 in)		914 mm (36.0 in)		1806.5 mm (71.1 in)	
width	165 mm (6.5in)		220.1 mm (8.7 in)		863 mm (33.9 in)		875.7 mm (34.5 in)	
depth	280 mm (11.0in)		749.3 mm (29.5 in)		482 mm (19.0 in)		741.8 mm (29.2 in)	
weight (net)	3.7 Kg (8.2lbs)		33 Kg (86 lbs)		100 Kg (220 lbs)		222.7 Kg (490 lbs)	
weight (shipping)	4.4 Kg (9.7lbs)		44.5 Kg (98 lbs)		127 Kg (280 lbs)		298.0 Kg (657 lbs)	
product certification								
model no	9100mx			220mx, 300mx, 600mx, 700mx, 1200mx, 2200mx				
safety	UL 1950, CSA 950, TUV IEC 950			UL 1950, CSA 950, TUV IEC 950				
emissions	FCC Class "B", CISPR 22, Class "B"			FCC Class "A", CISPR 22, Class "A"				
laser	CDRH, IEC 825			CDRH, IEC 825				
environmental characteristics								
temperature	9100mx , 220mx		300mx, 600mx, 700mx		1200mx, 2200mx			
operating	10° to 40°		10° to 40°		10° to 32°			
non-operating***	-40° to 60°		-40° to 60°		-40° to 60°			
gradient	10°C per hour		10°C per hour		10°C per hour			
transportation***	N/A		-30° to 60°		-30° to 60°			
(<14 consecutive days)								
shock	9100mx, 220mx		300mx, 600mx, 700mx, 1200mx, 2200mx					
non-operating***	30 g trapezoidal		10 cm tilt, drop test					
humidity	9100mx, 220mx, 300mx, 600mx, 700mx, 1200mx, 2200mx							
operating	10% to 80% RH							
non-operating***	5% to 90% RH							
vibration (5 to 500 hz)								
operating	9100mx		220mx		300mx, 600mx, 700mx, 1200mx, 2200mx			
non-operating (random)	0.3 g rms		0.21 g rms		0.21 g rms			
non-operating (swept-sine)	2.4 g rms		2.09 g rms		2.1 g rms			
acoustic emissions	1 g (0 to peak)		0.5 g (0 to peak)		0.5 g rms (0 to peak)			
operating	9100mx		220mx					
idle	55 db		<70 db					
power requirements	9100mx		220mx		300mx, 600mx, 700mx		1200mx, 2200mx	
line voltage	100 to 240 VAC		200 to 240 VAC		100 to 240 VAC		100 to 240 VAC	
line frequency	50 to 60 HZ		50 to 60 HZ		50 to 60 HZ		50 to 60 HZ	
power consumption	30 W typical		100 W typical		210/240 W typical		340 W typical	
energy-saving mode	50 W maximum		170 W maximum		250/275 W maximum		560 W maximum	
interface	N/A		When robotics inactive		When robotics inactive		When robotics inactive	
	9100mx		SCSI-2		Single-ended			
	220mx		SCSI-2 LVD		Single-ended or low voltage differential (auto sensing)			
	300mx, 600mx, 700mx, 1200mx, 2200mx		SCSI-2 LUN converter		Single-ended or high voltage differential (user-selectable)			