

L200

Capacity *1	2 TB	1 TB	1 TB	500 GB	500 GB
Drive model number	HDWL120	HDWL110	HDWJ110	HDWJ105	HDWK105
Basic Specifications					
Interface *3	SATA 6.0 Gbit/s	SATA 6.0 Gbit/s	SATA 3.0 Gbit/s	SATA 3.0 Gbit/s	SATA 3.0 Gbit/s
Form Factor	2.5-inch, 9.5mmH	2.5-inch, 7mmH	2.5-inch, 9.5mmH	2.5-inch, 9.5mmH	2.5-inch, 7mmH
Sector size	512e	512e	512e	512e	512e
Features					
Drive Bays Supported *2	Non-Public	Non-Public	Non-Public	Non-Public	Non-Public
24 x 7 Operation (Workloads [TB/year] *4)	Non-Public	Non-Public	Non-Public	Non-Public	Non-Public
Performances					
Rotation Speed [rpm]	5,400	5,400	5,400	5,400	5,400
Max Data Transfer Speed [MB/s Typ.](Sustained) *3	Non-Public	Non-Public	Non-Public	Non-Public	Non-Public
Buffer Size [MB]	128	128	8	8	8
Reliability					
MTTF [hours] *5	600,000	600,000	600,000	600,000	600,000
Unrecoverable Error Rate	1 per 10 ¹⁴	1 per 10 ¹⁴	1 per 10 ¹⁴	1 per 10 ¹⁴	1 per 10 ¹⁴
Load/Unload cycles	600,000	600,000	600,000	600,000	600,000
Power Requirements					
Supply Voltage	5 V ±5 %	5 V ±5 %	5 V ±5 %	5 V ±5 %	5 V ±5 %
Power Consumption (Spin up (+12V DC)) [A] *6	1.0	1.0	0.9	0.9	0.9
Power Consumption (Operating) [W] *7	1.65	1.65	1.5	1.5	1.5
Power Consumption (Active Idle) [W]	0.85	0.85	0.55	0.55	0.55
Dimensions					
Height [mm Max.]	9.5	7.0	9.5	9.5	7.0
Length [mm Max.]	100	100	100	100	100
Width [mm Max.]	69.85	69.85	69.85	69.85	69.85
Weight [g Max.]	117	92	107	107	92
Bottom holes type *8	Non-Public	Non-Public	Non-Public	Non-Public	Non-Public
Environmental Requirements					
Temperature (Operating) [°C]	0 to 65 (surface)	0 to 65 (surface)	5 to 63 (surface)	5 to 63 (surface)	5 to 63 (surface)
Temperature (Non-operating) [°C]	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Vibration (Operating)	9.8 m/s ² { 1.0 G } (5 to 500 Hz)	9.8 m/s ² { 1.0 G } (5 to 500 Hz)	9.8 m/s ² { 1.0 G } (5 to 500 Hz)	9.8 m/s ² { 1.0 G } (5 to 500 Hz)	9.8 m/s ² { 1.0 G } (5 to 500 Hz)
Vibration (Non-operating)	49 m/s ² { 5.0G } (15 to 500 Hz)	49 m/s ² { 5.0G } (15 to 500 Hz)	49 m/s ² { 5.0G } (15 to 500 Hz)	49 m/s ² { 5.0G } (15 to 500 Hz)	49 m/s ² { 5.0G } (15 to 500 Hz)
Shock (Operating)	3,920 m/s ² { 400 G } (2 ms half sine)	3,920 m/s ² { 400 G } (2 ms half sine)	3,920 m/s ² { 400 G } (2 ms half sine)	3,920 m/s ² { 400 G } (2 ms half sine)	3,920 m/s ² { 400 G } (2 ms half sine)
Shock (Non-operating)	9,800 m/s ² { 1000 G } (2 ms half sine)	9,800 m/s ² { 1000 G } (2 ms half sine)	8,820 m/s ² { 900 G } (1ms half sine)	8,820 m/s ² { 900 G } (1ms half sine)	8,820 m/s ² { 900 G } (1ms half sine)
Acoustics(Sound Power) Idle mode [dB]	23	19	23	17	19

*1: One Gigabyte (1GB) means 10⁹ = 1,000,000,000 bytes and One Terabyte (1TB) means 10¹² = 1,000,000,000,000 bytes using powers of 10. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ = 1,073,741,824 bytes and 1TB = 2⁴⁰ = 1,099,511,627,776 bytes, and therefore shows less storage capacity. Available storage capacity (including examples of various media) will vary based on the size, formatting, settings, software and operating system and other factors.

*2: As for "Drive Bays Supported", please contact your Solutions Provider because the compatibility with the host device will vary based on the system.

*3: Read and write speed may vary depending on the host device, read and write conditions, and file size.

*4: Workload is defined as the amount of data written, read or verified by commands from host system.

*5: MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF.

*6: Not including glitch less than 100 μs.

*7: Operating watt is measured using 80% random read/write and 20% performance idle.

*8: Location of bottom mounting hole is different from product. For more information, please see the following page.

<https://toshiba.semicon-storage.com/us/design-support/faq/storage-holes.html>