Enterprise HDD (3.5-inch)

AL13SEL900 / AL13SEL600 / AL13SEL450 / AL13SEL300

	AL13SEL900	AL13SEL600	AL13SEL450	AL13SEL300
Basic Specifications				
Interface	SAS-2.0			
Interface Speed	6.0 Gbit/s , 3.0 Gbit/s , 1.5 Gbit/s			
Formatted Capacity	900 GB	600 GB	450 GB	300 GB
Logical Data Block Length (HOST)	512 to 528 B (fixed length)			
Logical Data Block Length (DISK)	512 to 528 B (fixed length)			
Environmental Compliance	RoHS Compatible			
Performances				
Buffer Size	64 MiB FIFO ring buffer			
Rotation Speed	10,500 rpm			
Average Latency Time	2.86 ms			
Reliability				
Unrecoverable Error Rate	10 per 10^{17} bits read			
Power Requirements				
Supply Voltage	5 V ±5 % , 12 V ±5 %			
Power Consumption (Idle-B)	3.9 W Typ.			
Dimensions				
Height	26.1 mm Max.			
Width	101.6 mm ±0.25 mm			
Depth	147 mm Max.			
Weight	500 g Max.			
Environmental Requirements				
Temperature (Operating)	5 to 55°C			
Temperature (Non-operating)	-40 to 70 °C			
Humidity (Operating)	5 to 95 % R.H.			
Humidity (Non-operating)	5 to 95 % R.H.			
Altitude (Operating)	-305 to +3,048 m { -1,000 to +10,000 feet }			
Altitude (Non-operating)	-305 to +12,192 m { -1,000 to +40,000 feet }			
Vibration (Operating)	9.8 m/s^2 { 1.0 G } (20 to 300 Hz)			
Vibration (Non-operating)	49 m/s^2 { 5.0 G } (20 to 300 Hz)			
Shock (Operating)	638 m/s^2 { 65 G } (2 ms duration)			
Shock (Non-operating)	2,450 m/s^2 { 250 G } (2 ms duration)			

▶ Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2^{30} = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
▶ A kibibyte (KiB) means 2^{10}, or 1,024 bytes, a mebibyte (MiB) means 2^{20}, or 1,048,576 bytes, and a gibibyte (GiB) means 2^{30}, or 1,073,471,824 bytes.
▶ Toshiba Semiconductor & Storage Products Company defines "RoHS-Compatible" products as products that either (i) contain no more than a maximum concentration value of 0.1% by weight in Homogeneous Materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) and of 0.01% by weight in Homogeneous Materials for cadmium; or (ii) fall within any of the application exemptions set forth in the Annex to the RoHS Directive. "Homogeneous Material" means a material of uniform composition that cannot be mechanically disjointed (meaning separated, in principle, by mechanical actions such as unscrewing, cutting, crushing, grinding and/or abrasive processes) into different materials. Examples of "Homogeneous Materials" would be individual types of plastics, ceramics, glass, metals, alloys, paper, board, resins and coatings.
▶ Read and write speed may vary depending on the host device, read and write conditions, and file size.
▶ "2.5-inch" and "3.5-inch" mean the form factor of HDDs or SSDs. They do not indicate drive's physical size.