

Western Digital.

PRODUCT BRIEF

HDD

Western Digital Ultrastar DC HC310 HUS726T4TALE6L4-0B36040 4TB 7200 RPM 256MB Cache SATA 6.0Gb/s 3.5" Internal Hard Drive

Model

Brand	Western Digital
Series	Ultrastar DC HC310
Model	HUS726T4TALE6L4-0B36040

Performance

Interface ?	SATA 6.0Gb/s
Capacity	4TB
RPM ?	7200 RPM
Cache ?	256MB
Average Latency ?	4.16ms

Features

Usage	For Enterprise Storage
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Dimensions

Form Factor ?	3.5"
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Ultrastar® DC HC310

DATA SHEET

3.5-INCH DATA CENTER HARD DRIVES

Specifications

Configuration	SATA Models	SAS Models
Model #	HUS726TxTAL6yz HUS726T4TALA6yz	HUS726TxTAL52yz HUS726T4TALS2yz
Interface	SATA 6Gb/s	SAS 12Gb/s
Capacity ¹	6TB / 4TB	←
Form Factor	3.5-inch	←
Sector size (bytes) ³	4Kn: 4096 512n /512e: 512	4Kn: 4096, 4104, 4160, 4224 512n /512e: 512, 520, 528
Max. areal density (Gbits/sq. in., max)	512e/4Kn: 782, 696 (4TB) 512n : 753	← ←
Performance		
Data buffer (MB) ⁴	256	←
Rotational speed (RPM)	7200	←
Latency average (ms)	4.16	←
Interface transfer rate (MB/s, max)	600	1200
Sustained transfer rate ⁵ (MiB/sec, typ.) (MB/sec, typ.)	512e/4Kn: Up to 243 512n : 222 512e/4Kn: Up to 255 512n : 233	← ←
Reliability		
Error Rate (non-recoverable bits read)	1 in 10 ¹⁵	←
Load/Unload cycles (at 40°C)	600,000	←
MTBF ²	2M hours	←
Annual failure rate (AFR) ²	0.44%	←
Availability (hrs/day x days/wk)	24x7	←
Limited Warranty (yrs)	5	←

¹ One megabyte (MB) is equal to one million bytes, one gigabyte (GB) is equal to 1,000MB (one billion bytes), and one terabyte (TB) is equal to 1,000GB (one trillion bytes) when referring to storage capacity. Accessible capacity will vary from the stated capacity due to formatting, system software, and other factors.
² MTBF and AFR specifications are based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions for this drive model. MTBF and AFR ratings do not predict an individual drive's reliability and do not constitute a warranty.

³ Advanced Format drive: 4K (4096-byte) physical sec ⁴ Portion of buffer capacity used for drive firmware
⁵ 1MiB = 1,048,576 bytes (220), 1MB = 1,000,000 bytes (106)
⁶ Excludes command overhead
⁷ SATA models: 8K Queue Depth = 1 @ 40 IOPS, SAS models: 4K Queue Depth = 4 @ Max IOPS
⁸ Idle specification is based on use of Idle_A
⁹ 512e models can be converted to 4Kn format and vice versa.

	SATA Models	SAS Models
Acoustics		
Idle/Operating (Bels, typical)	2.9 / 3.6	←
Power		
Requirement	+5V, +12V	←
Operating (W, typical) ⁷	7.0	12.1
Idle (W) ⁸	5.9	7.0
Physical		
z-height (mm, max)	26.1	←
Dimensions (width x depth, mm)	101.6 (+/-0.25) x 147	←
Weight (g, max)	715	←
Environmental (operating)		
Ambient Temperature	5°C to 60°C	←
Shock (half-sign wave, 2 ms, G)	70	←
Vibration (G RMS, 5 to 500 Hz)	0.67 (XYZ)	←
Environmental (non-operating)		
Ambient Temperature	-40°C to 70°C	←
Shock (half-sign wave, 2 ms, G)	300	←
Vibration (G RMS, 2 to 200 Hz)	1.04 (XYZ)	←

NOTE: See "How to Read Model Number" below for possible values of x, y and z in model numbers.

How to Read the Ultrastar Model Number

HUS726TxTAL6yz = xTB SATA 6Gb/s 512e

H = Western Digital
U = Ultrastar
S = Standard
72 = 7200 RPM
6T = Max capacity in series (6TB)
xT = Capacity of this model
(6T = 6TB, 4T = 4TB)
A = Generation code
L = 26.1mm z-height
E6⁹ = Interface (512e SATA 6Gb/s)
(A6 = 512n SATA 6Gb/s,
S2 = 512n SAS 12Gb/s,
52⁹ = 512e SAS 12Gb/s)

y = Power Disable Pin 3 status
(0 = Power Disable Pin 3 support
L = Legacy Pin 3 config – No Power
Disable Support)
z = Data Security Mode
1 = SED : Self Encrypting Drive.
TCG-Enterprise and Sanitize Crypto
Scramble / Erase.
4 = Base (SE) : No Encryption.
Sanitize Overwrite only.
5 = SED-FIPS: SED w/ certification
(SAS only).

Available on 4TB capacities
ATA Security Feature Set comes standard on SATA