

Toshiba S300 4TB Internal Surveillance Hard Drive

3.5-inch SATA Surveillance HDD - 24/7 CCTV, DVR, NVR and Hybrid Recorder Storage

Category	Storage / Surveillance Hard Drives
Brand	Toshiba
Series	S300 Surveillance Hard Drive
Capacity	4TB
Bulk Number	HDWT840UZSVA

Overview:

The Toshiba S300 4TB Surveillance Hard Drive is designed for continuous video recording environments where stable 24/7 operation, multi-camera support, and dependable storage performance are required. It is suitable for CCTV systems using DVR, NVR and hybrid surveillance recorders.

Key Features:

- 4TB surveillance storage capacity for CCTV recording applications.
- 3.5-inch SATA 6.0 Gbit/s interface for standard DVR/NVR integration.
- 24 x 7 operation designed for continuous surveillance workloads.
- Supports up to 64 video cameras, depending on recorder and system design.
- 5,400 rpm rotational speed with 256MB buffer.
- Up to 180TB/year workload rating for surveillance recording use.
- 1,000,000 hours MTTF and 600,000 load/unload cycles.
- Shock sensor and Advanced Format support.
- 3-year limited warranty according to Toshiba official specifications.

Technical Specifications:

Specification	Details
Product Name	Toshiba S300 4TB Internal Surveillance Hard Drive
Model Name	S300 4TB
Bulk Number	HDWT840UZSVA
Form Factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	SMR
Capacity	4TB
Number of Cameras Supported	Up to 64 cameras

Specification	Details
Drive Bays Supported	Up to 8
Rotational Speed	5,400 rpm
Max. Sustained Transfer Speed	184 MB/s typ.
Buffer Size	256 MB
Workload Rating	180 TB/year
MTTF	1,000,000 hours
Unrecoverable Error Rate	1 per 10 ¹⁴ bits read
24 x 7 Operation	Yes
Load / Unload Cycle	600,000
Limited Warranty	3 years
Supply Voltage	5 V DC +/-5%, 12 V DC +/-10%
Power Consumption - Operating	4.36 W typ.
Power Consumption - Active Idle	2.33 W typ.
Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	650 g

Environmental Specifications:

Specification	Details
Operating Temperature	0 to 70 °C
Non-operating Temperature	-40 to 70 °C
Operating Vibration	4.90 m/s ² {0.50 G} (5 to 350 Hz); 2.45 m/s ² {0.25 G} (350 to 500 Hz)
Non-operating Vibration	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Operating Shock	686 m/s ² {70 G} - 2 ms duration
Non-operating Shock	3,430 m/s ² {350 G} - 2 ms duration
Acoustics - Idle Mode	22 dB typ.

Applications:

- Surveillance Digital Video Recorders (DVR).
- Surveillance Network Video Recorders (NVR).
- Hybrid DVR systems using analog and IP cameras.
- CCTV systems requiring 24/7 recording.
- Retail, residential, office, factory and commercial security installations.

Connect Gates Recommendation:

Recommended for CCTV projects that require reliable surveillance storage with continuous operation, up to 64-camera recording support, and high workload endurance. For critical sites, always calculate retention days based on camera count, resolution, frame rate, codec, bitrate and recording schedule before final capacity approval.

Quotation Version:

Specification	Details
Key Features	4TB Surveillance HDD / 3.5-inch SATA / 24 x 7 Operation / Up to 64 Cameras / 256MB Buffer / 180TB/year Workload / 3-Year Warranty
Technical Specifications	Model: S300 4TB - Bulk Number: HDWT840UZSVA - Speed: 5,400 rpm - Interface: SATA 6.0 Gbit/s - Recording Technology: SMR - MTTF: 1,000,000 hours

Source Note:

This datasheet is prepared by Connect Gates based on Toshiba official S300 Surveillance Hard Drive published specifications. Product specifications and availability may change by region and supply batch. Verify final bulk number before quotation and delivery.