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X300 Performance Hard Drives




Level up your drive performance

This 3.5-inch internal hard drive is designed for your professional or gaming PC – delivering reliable, large capacity, incredibly high-performance storage, made possible by a number of advanced features, including an ultra-high 512 MB buffer. It even features improved positional accuracy for stable recording. The X300 is ideal for PC gamers, graphic designers, and other users with demanding storage requirement.

Use for

- Powerful Desktop Workstations
- All-in-one PCs
- Gaming computers
- Home Media computers

Top Features

- SATA** 3.5" SATA Hard Drive
- RPM** 7,200 rpm
-  512 MB buffer
-  Toshiba Stable Platter Technology
-  Toshiba Dynamic Cache Technology

Capacities

20 TB	18 TB	16 TB	14 TB	12 TB
10 TB	8 TB	6 TB	4 TB	



X300

Performance Hard Drive – 20 TB

Retail Number	n/a
Bulk Number	HDWR62AUZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁵
Load/Unload cycles	300,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	8.02 W typ.
Consumption (active idle)	4.41 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	490 m/s ² {50 G} (2 ms duration)
Shock (non-operating)	1,960 m/s ² {200 G} (2 ms duration)
Acoustics (idle mode)	20 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	720 g

X300

Performance Hard Drive – 20 TB

Retail Number	n/a
Bulk Number	HDWR62AUZSVA

Logistic Information (Retail Packaging)

Box dimensions	n/a
Master Carton dimensions	n/a
Master Carton Weight	n/a
Box per master carton	n/a
Units per Pallet	n/a
Pallet dimensions	n/a
Pallet quantity per layer	n/a
Number of Layer	n/a
Pallet weight	n/a

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	476 (L) x 285 (W) x 228 (H) mm
Master Carton Weight	16 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	880 (L) x 990 (W) x 1,272 (H) mm
Pallet weight	473 kg
Country of Origin	Philippines

X300

Performance Hard Drive – 18 TB

Retail Number	n/a
Bulk Number	HDWR51JUZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁴
Load/Unload cycles	300,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	7.48 W typ.
Consumption (active idle)	4.14 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2,450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	20 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	720 g

X300

Performance Hard Drive – 18 TB

Retail Number	n/a
Bulk Number	HDWR51JUZSVA

Logistic Information (Retail Packaging)

Box dimensions	n/a
Master Carton dimensions	n/a
Master Carton Weight	n/a
Box per master carton	n/a
Units per Pallet	n/a
Pallet dimensions	n/a
Pallet quantity per layer	n/a
Number of Layer	n/a
Pallet weight	n/a

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	500 (L) x 310 (W) x 228 (H) mm
Master Carton Weight	16 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	1,050 (L) x 970 (W) x 1,272 (H) mm
Pallet weight	478 kg
Country of Origin	Philippines

X300

Performance Hard Drive – 16 TB

Retail Number	n/a
Bulk Number	HDWR51GUZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁴
Load/Unload cycles	300,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	7.48 W typ.
Consumption (active idle)	4.14 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2,450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	20 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	720 g

X300

Performance Hard Drive – 16 TB

Retail Number	n/a
Bulk Number	HDWR51GUZSVA

Logistic Information (Retail Packaging)

Box dimensions	n/a
Master Carton dimensions	n/a
Master Carton Weight	n/a
Box per master carton	n/a
Units per Pallet	n/a
Pallet dimensions	n/a
Pallet quantity per layer	n/a
Number of Layer	n/a
Pallet weight	n/a

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	500 (L) x 310 (W) x 228 (H) mm
Master Carton Weight	16 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	1,050 (L) x 970 (W) x 1,272 (H) mm
Pallet weight	478 kg
Country of Origin	Philippines

X300

Performance Hard Drive – 14 TB

Retail Number	HDWR51EEZSTA
Bulk Number	HDWR51EUZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁴
Load/Unload cycles	300,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	7.38 W typ.
Consumption (active idle)	3.77 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2,450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	20 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	705 g

X300

Performance Hard Drive – 14 TB

Retail Number	HDWR51EEZSTA
Bulk Number	HDWR51EUZSVA

Logistic Information (Retail Packaging)

Box dimensions	136 (L) x 60 (W) x 189 (H) mm
Master Carton dimensions	265 (L) x 150 (W) x 210 (H) mm
Master Carton Weight	4 kg
Box per master carton	4 pcs
Units per Pallet	480 pcs
Pallet dimensions	1,120 (L) x 1,060 (W) x 1,200 (H) mm
Pallet quantity per layer	96 pcs
Number of Layer	5 layer
Pallet weight	448 kg

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	500 (L) x 310 (W) x 228 (H) mm
Master Carton Weight	15 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	1,050 (L) x 970 (W) x 1,272 (H) mm
Pallet weight	469 kg
Country of Origin	Philippines

X300

Performance Hard Drive – 12 TB

Retail Number	HDWR51CEZSTA
Bulk Number	HDWR51CUZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁴
Load/Unload cycles	300,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	6.85 W typ.
Consumption (active idle)	3.30 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2,450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	20 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	690 g

X300
Performance Hard Drive – 12 TB

Retail Number	HDWR51CEZSTA
Bulk Number	HDWR51CUZSVA

Logistic Information (Retail Packaging)

Box dimensions	136 (L) x 60 (W) x 189 (H) mm
Master Carton dimensions	265 (L) x 150 (W) x 210 (H) mm
Master Carton Weight	3 kg
Box per master carton	4 pcs
Units per Pallet	480 pcs
Pallet dimensions	1,120 (L) x 1,060 (W) x 1,200 (H) mm
Pallet quantity per layer	96 pcs
Number of Layer	5 layer
Pallet weight	441 kg

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	500 (L) x 310 (W) x 228 (H) mm
Master Carton Weight	15 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	1,050 (L) x 970 (W) x 1,272 (H) mm
Pallet weight	460 kg
Country of Origin	Philippines

X300

Performance Hard Drive – 10 TB

Retail Number	HDWR71AEZSTA
Bulk Number	HDWR71AUZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁵
Load/Unload cycles	600,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	9.07 W typ.
Consumption (active idle)	5.74 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2,450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	34 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	755 g

X300

Performance Hard Drive – 10 TB

Retail Number	HDWR71AEZSTA
Bulk Number	HDWR71AUZSVA

Logistic Information (Retail Packaging)

Box dimensions	136 (L) x 60 (W) x 189 (H) mm
Master Carton dimensions	265 (L) x 150 (W) x 210 (H) mm
Master Carton Weight	4 kg
Box per master carton	4 pcs
Units per Pallet	480 pcs
Pallet dimensions	1,120 (L) x 1,060 (W) x 1,200 (H) mm
Pallet quantity per layer	96 pcs
Number of Layer	5 layer
Pallet weight	472 kg

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	410 (L) x 308 (W) x 228 (H) mm
Master Carton Weight	17 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	870 (L) x 970 (W) x 1,272 (H) mm
Pallet weight	510 kg
Country of Origin	Philippines

X300

Performance Hard Drive – 8 TB

Retail Number	HDWR780EZSTA
Bulk Number	HDWR780UZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁵
Load/Unload cycles	600,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	9.07 W typ.
Consumption (active idle)	5.74 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2,450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	34 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	755 g

X300

Performance Hard Drive – 8 TB

Retail Number	HDWR780EZSTA
Bulk Number	HDWR780UZSVA

Logistic Information (Retail Packaging)

Box dimensions	136 (L) x 60 (W) x 189 (H) mm
Master Carton dimensions	265 (L) x 150 (W) x 210 (H) mm
Master Carton Weight	4 kg
Box per master carton	4 pcs
Units per Pallet	480 pcs
Pallet dimensions	1,120 (L) x 1,060 (W) x 1,200 (H) mm
Pallet quantity per layer	96 pcs
Number of Layer	5 layer
Pallet weight	472 kg

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	410 (L) x 308 (W) x 228 (H) mm
Master Carton Weight	17 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	870 (L) x 970 (W) x 1,272 (H) mm
Pallet weight	510 kg
Country of Origin	Philippines

X300

Performance Hard Drive – 6 TB

Retail Number	HDWR760EZSTA
Bulk Number	HDWR760UZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁵
Load/Unload cycles	600,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	8.19 W typ.
Consumption (active idle)	4.92 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2,450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	34 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	730 g

X300

Performance Hard Drive – 6 TB

Retail Number	HDWR760EZSTA
Bulk Number	HDWR760UZSVA

Logistic Information (Retail Packaging)

Box dimensions	136 (L) x 60 (W) x 189 (H) mm
Master Carton dimensions	265 (L) x 150 (W) x 210 (H) mm
Master Carton Weight	4 kg
Box per master carton	4 pcs
Units per Pallet	480 pcs
Pallet dimensions	1,120 (L) x 1,060 (W) x 1,200 (H) mm
Pallet quantity per layer	96 pcs
Number of Layer	5 layer
Pallet weight	460 kg

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	410 (L) x 308 (W) x 228 (H) mm
Master Carton Weight	16 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	870 (L) x 970 (W) x 1,272 (H) mm
Pallet weight	495 kg
Country of Origin	Philippines

X300

Performance Hard Drive – 4 TB

Retail Number	HDWR740EZSTA
Bulk Number	HDWR740UZSVA

Basic Specifications

Form factor	3.5-inch
Interface	SATA 6.0 Gbit/s
Recording Technology	CMR
Native command queuing (NCQ)	supported
Shock Sensor	yes
Advanced Format (AF)	yes
RoHS compatible	yes
Halogen free	yes

Performance

Rotational speed (rpm)	7,200
Buffer size (MB)	512
Average latency (ms)	4.17

Reliability

MTTF (hours)	600,000
Unrecoverable error rate	1 per 10 ¹⁵
Load/Unload cycles	600,000
Limited warranty (years)	2

Power Management

Supply voltage	5 V DC +10 %/-7 % 12 V DC ±10 %
Consumption (operating)	7.43 W typ.
Consumption (active idle)	4.14 W typ.

Environmental

Temperature (operating/non-operating)	5 to 60 °C -40 to 70 °C
Vibration (operating)	7.35 m/s ² (0.75 G) (5 to 300 Hz) 2.45 m/s ² (0.25 G) (300 to 500 Hz)
Vibration (non-operating)	29.4 m/s ² {3.0 G} (5 to 500 Hz)
Shock (operating)	686 m/s ² {70 G} (2 ms duration)
Shock (non-operating)	2,450 m/s ² {250 G} (2 ms duration)
Acoustics (idle mode)	34 dB typ.

Physical

Dimensions	147 (L) x 101.85 (W) x 26.1 (H) mm
Weight	710 g

X300

Performance Hard Drive – 4 TB

Retail Number	HDWR740EZSTA
Bulk Number	HDWR740UZSVA

Logistic Information (Retail Packaging)

Box dimensions	136 (L) x 60 (W) x 189 (H) mm
Master Carton dimensions	265 (L) x 150 (W) x 210 (H) mm
Master Carton Weight	4 kg
Box per master carton	4 pcs
Units per Pallet	480 pcs
Pallet dimensions	1,120 (L) x 1,060 (W) x 1,200 (H) mm
Pallet quantity per layer	96 pcs
Number of Layer	5 layer
Pallet weight	451 kg

Logistic Information (Bulk)

Master Carton quantity	20 pcs
Master Carton size	410 (L) x 308 (W) x 228 (H) mm
Master Carton Weight	16 kg
Pallet quantity per layer	120 pcs
Number of Layer	5 layer
Pallet quantity	600 pcs
Pallet size	870 (L) x 970 (W) x 1,272 (H) mm
Pallet weight	483 kg
Country of Origin	Philippines