

NXSAT16FLS-CC SATA II SSD Drive

Drive Mechanism

Solid State Drive
with integrated Flash NAND chips

Interface

SATA II - 3.0 Gb/s
SATA I - 1.5 Gb/s

Capacity

16 GB

Physical

2.5" Form Factor
L:100.2mm W:69.8mm H:9.5mm
Weight: 85 grams

Dimensions

L:100.2mm W:69.8mm H:9.5mm

Environmental

Operating Shock: 1500 Gs for 0.5ms
(3 axes, MIL-STD-810G 516.6)
Operating Vibration: 20G
Operating Temp: -40°C~+110°C
Operating Altitude: 120,000 ft
Humidity: 5%~98%

Endurance

Read: 150 years
Write: 120 years @ 200%
capacity write-erase per day

Warranty

3-year warranty
Return to factory, parts and labor
Extendable to 10 years total

The NXSAT16FLS-CC SATA II completely redefines the high-end of super fast, large capacity, ruggedized, industrial-strength solid state drives.



Military-class Ruggedness & Speed

The NXSAT16FLS-CC drive is compliant with the latest military specification, MIL-STD-810G. It is manufactured in the USA for the kinds of challenging environments found in the military, defense, medical and other mission critical applications. On top of that, the drive can reach sustained reads of 230 GB/s and writes of 170 GB/s. Higher capacity drives reach 260/230 GB per second read/write speeds.

Designed to Fit YOUR Form and Function

Out of the box, the NXSAT16FLS-CC drive supports a standard SATA II interfaces in an industry standard 2.5" form factor. The NXSAT16FLS-CC is a 16 GB drive, but it belongs to a family of high-end SSD drives that we ship in the following specific capacities: 32, 64, 128, 256, and 512 GB.

Advanced Features

Nemonix proudly stands behind this remarkable drive family. It has top of the line single cell (SLC) solid state media technology, including the following high-end features:

- **Secure Erasure** (DoD 5220.22-M, USAF AFSSI 5020, NSA Manual 130-2, Navy NAVSO P-5239-26, Army 380-19, IREC (IRIG) 106, etc.
- **Conformal Coating** protects against moisture, dirt, mud, and static discharge.
- **Advanced NAND Flash Management** features include Wear Leveling Algorithm, TRIM, Bad Block Management Algorithm, and Error Detection/Correction Algorithm.

Built to Extend the Life of Your Hardware Investment

The NXSAT16FLS-CC drive series is at the extreme cutting edge of Solid State technology. Not only is it super rugged and fast, it is also extremely durable at 5,000,000 Hours MTBF. We extend a warranty of 3 years right out of the box, extendable to 10 years. That's confidence!

Performance

	16 GB Drive	32 GB + Drives
Sequential Read / Write	230 MB per second / 170 MB per second	260 MB per second / 230 MB per second

Reliability

Mean Time Before Failure (MTBF)	5,000,000 Hours
Data Reliability	Built-in BBM and 24-bit EDC/ECC function
Useful Life	Read: 150 Years / Write: 120 years at 200% capacity write/erase per day
Date Integrity	10 Years

Power Requirements

Power Supply	Power Consumption Active	Power Consumption Idle
5.0 Vcc ± 5%	1.13 W	0.35 W

Environmental

Temperature & Humidity	Mechanical Shock/Vibration
Operating Temperature: -40~+85, -45~+95, -55~+85, -40~+100, or -50~+110 °C	Operating Shock: 1,500 G, 0.5 ms, 3 axes, MIL-STD-810G meth 516.6
Storage Temperature: -45~+90, -50~+100, -55~+90, -45~+105, or -55~+115 °C	Operating Vibration: 20G, 7Hz - 2,000Hz, 3 axes MS810G meth 514.6
Operating Humidity: 5% ~ 98% RH	Operating Drop: 2.0 m, 60 kg, all axes
Operating Altitude: 120,000 ft	



This device may be self-installed, installed with Nemonix Engineering phone support, or installed by your service provider with Nemonix Engineering phone support. Nemonix Engineering offers 9-5 installation and warranty support during the 3-year warranty period, via phone.

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