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VisionTek Pro QLC 7mm 2.5” SSD (SATA)

SKU: 901369



The VisionTek QLC 7mm 2.5" SATA SSD offers speed, reliability and large capacities for professionals, gamers and everyday users.

- Max Sequential Reads up to 550MB/s
- Max Sequential Writes up to 530MB/s
- Max 4K Random Reads up to 97K IOPS
- Max 4K Random Writes up to 89K IOPS

VisionTek Pro QLC 7mm 2.5” SSD (SATA)

The VisionTek Pro QLC Series 2.5” 7mm SSD is designed to bring fast, reliable storage to PC users. With the shift from the hard disk drive to the solid state drive our 3D MLC Series SSDs are a drop-in replacement option for a hard disk drive (HDD). It delivers superior reliability, durability, power efficiency and performance - keeps your system working reliably in the toughest of conditions.

Conforming to the industry standard SATA connector specification, these SSDs integrate easily into existing storage infrastructures. The VisionTek Pro QLC Series SSDs provide high bandwidth and IOPS while efficiently managing write amplification. Employing SSD technology in a system enables faster boot times, quicker application load times, lower power consumption, and enhanced reliability.



Speed / Performance

Start your system in seconds, load files almost instantly, and accelerate the most demanding applications with VisionTek solid state drives. With the advancements in SSD technology, you can open a program and have it load immediately. Unlike a mechanical hard drive, an SSD has no moving parts ensuring faster performance, longer device life and more secure data.



Easy to Install

A solid state hard drive is easy to install, in just a few minutes time you can upgrade your internal system storage. No need to pay someone else, the installation of an SSD is quick and easy! Consult your system manufacturers documentation for system specific installation instructions.

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Features

- SLC caching accelerates burst performance
- Global wear leveling evens program/erase counts to extend drive lifespan
- StaticDataRefresh technology ensures data integrity
- Data shaping increases endurance
- TRIM command support (OS dependent)
- S.M.A.R.T. support
- LDPC hard and soft decode ECC
- DEVSLP support
- Internal flash RAID-like parity scheme provides an additional layer of error correction
- SATA 3.2 (6Gb/s) interface (backwards compatible with SATA 2.0 (3Gb/s) and SATA 1.0 (1.5Gb/s))
- Industry-standard 512 byte sector support
- Native Command Queuing (NCQ) support with 32 command que depth
- RoHS-compliant package

Technical Specifications

Connection Type

SATA

Form Factor

7mm 2.5"

Controller

Silicon Motion SM2259

Flash Type

3D QLC NAND

Security

Secure Erase support
User selectable ATA password support

Reliability

MTBF: 1.5 million device hours*
End-to-End Data Protection
Built-in LDPC ECC
Static and dynamic wear leveling
Uncorrected Bit Error Rate: ?1 sector per 10^{15} bits read

Electrical / Mechanical

+5VDC (±5%) power supply
Power Consumption: up to 2.1W (Active), 0.09W (Idle)
2.5-inch form factor: 100.45 x 69.85 x 7mm
Weight: 60g

Environmental

Operating temperature: 0-70°C
Non-Operating temperature: -40-85°C
Operating humidity: 5-95% relative
Shock: 1500G/0.5ms
Vibration: 2-500Hz, 3.1G

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Performance

Part #	Capacity	Max Sequential Reads	Max Sequential Writes	Max 4K Random Reads	Max 4K Random Writes	Endurance
901367	250GB	550MB/s	445 MB/s	30K IOPS	60K IOPS	TBW: Up to 380TB DWPD: 0.361TB (3 Year)
901368	500GB	560 MB/s	505 MB/s	60K IOPS	66K IOPS	TBW: Up to 380TB DWPD: 0.361TB (3 Year)
901369	1TB	560 MB/s	505 MB/s	75K IOPS	66K IOPS	TBW: Up to 380TB DWPD: 0.361TB (3 Year)
901370	2TB	560 MB/s	505 MB/s	75K IOPS	66K IOPS	TBW: Up to 380TB DWPD: 0.361TB (3 Year)

Warranty

Warranty:

3 Year Limited*

Product must be registered within 30 days of purchase to be covered by the 3 Year Limited Warranty*. Products not registered within 30 days of purchase will default to our 1-Year Warranty period.

You may register your product here: www.visiontek.com/support/warranty-registration
For additional warranty information, please see our Warranty Page: www.visiontek.com/support/warranty-information

Support

Spec Sheet

Download PDF

FAQ

For California Residents Only:
WARNING: Cancer and Reproductive harm. For more information, go to www.p65warnings.ca.gov

*** Please, Note that Proposition 65 may be best defined as a “Right To Know” law in California and Prop 65 warning labels are not an indication that a product is violating safety standards or regulations. The Prop 65 warning label does not mean our products inevitably cause cancer or reproductive harm. We do not consider our products harmful when used as intended. However, it is a necessary precaution to provide the warning because of this California law.**