

Contact Information

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Avant Verve SSD

The Avant Verve SSD Mobile combines enterprise class performance and reliability with low power operation to make the ideal mobile drive. The high read and write performance of the Avant Verve SSD will satisfy the most demanding gamer and power user. While the low power mode extends battery life for the road warrior.

Providing an industry-leading bandwidth of more than 260MB/sec transfers, the Avant Verve SSD can approach the limits of the SATA 3Gb/s interface on large transfers. Performance reaches enterprise class standards with up to 30,000 IOPS.

A robust ECC algorithm and RAISE™ technology protect the data. Efficient bad block management and reduced write amplification further bolster endurance. Drive health is monitored using an SSD-specific set of S.M.A.R.T. attributes. The combination of these techniques provides data protection unrivaled in the storage industry.

Call and order an Avant Verve SSD Mobile and see for yourself why it is the optimal drive for your computer system.

Reduced Power Requirements

- No moving parts
- Super-low operating and standby power needs
- Power requirements notably reduced over a typical HD

Fast Performance

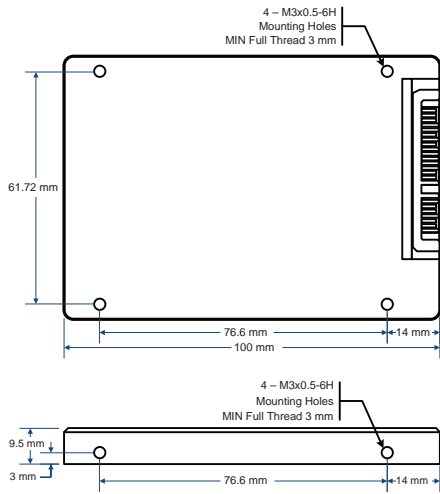
- Virtually zero spin up or seek times
- Zero rotational latency
- High sustained high-speed data transfers

Reliable

- No volatile memory elements
- Improved resistance to shock & vibration
- Predictable and manageable failure modes reduce IT costs

Improved Operation

- Noise and vibration free
- Virtually no heat emissions
- Lighter than conventional storage



Assembled in the U.S.A.

Part Number	Capacity	Wear Level Provisioning	Read/Write Sequential	IOPS
AVSM20A4030M4	30GB	7%	280/275	30K
AVSM20A4040M4	40GB	20%	280/275	30K
AVSM20A4050M4	50GB	28%	280/275	30K
AVSM20A4055M4	55GB	16%	280/275	30K
AVSM20A4060M4	60GB	7%	280/275	30K
AVSM20A4080M4	80GB	20%	280/275	30K
AVSM20A4090M4	90GB	7%	280/275	30K
AVSM20A4100M4	100GB	28%	280/275	30K
AVSM20A4115M4	115GB	11%	280/275	30K
AVSM20A4120M4	120GB	7%	280/275	30K
AVSM20A4160M4	160GB	20%	280/275	30K
AVSM20A4180M4	180GB	7%	280/275	30K
AVSM20A4200M4	200GB	28%	280/275	30K
AVSM20A4240M4	240GB	7%	280/275	30K
AVSM20A4320M4	320GB	20%	280/275	30K
AVSM20A4360M4	360GB	7%	280/275	30K
AVSM20A4400M4	400GB	28%	280/275	22.5K
AVSM20A4480M4	480GB	7%	280/275	22.5K
AVSM20AC640M4	640GB	20%	255/265	10K
AVSM20AC720M4	720GB	7%	255/265	10K
AVSM20AC800M4	800GB	28%	255/265	10K
AVSM20AC960M4	960GB	7%	255/265	10K

Avant Verve SSD - Technical Specifications

Features

- 9.5 mm thick 2.5" Form Factor
- Lifetime performance – will not degrade over time
- TRIM support (O/S support required)
- Windows (32-bit & 64-bit), Linux, and Mac OSX
- Ultra-efficient Block Management and Wear Leveling

Capacity

30GB to 960GB

Host Interface

- SATA 2.6 Compliant, 3Gb/s support and 1.5Gb/s support
- Native Command Queuing: 32
- SMART attribute List: Extended

Performance

- Sequential Read @128K: upto 285MB/s
- Sequential Write @128K: upto 275MB/s
- Random Read IOPS @ 4K blocks: up to 30K
- Random Write IOPS @ 4K blocks: up to 30K

Flash Memory Support

- Supports MLC or SLC type
- Number of Flash Buses: 16

Power Consumption

- Up to 480GB - Typical (mW) <2.5W
- Sleep/Slumber: 50mW
- Over 480GB - Typical (mW) <5.0W
- Sleep/Slumber: 100mW

Reliability

- MTTF: 1.5M
- Up to 24 9-bit Symbols Correction per 512 9-bit Symbol
- Non-recoverable Read Errors: (Less than 1 sector per bits read) 10^{16}

Environmental

- Operating Temperature 0°C to 70°C

Security

- 128-bit AES compliant Data Encryption
- User Selectable Password prior to boot
- User Selectable Password runtime
- Secure Erase (Factory Reset - ATA)

Physical

- 2.5 inch industry standard form factor
- Height - 9.5 mm
- Weight < 80g

