

Contact Information

Avant Technology

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Avant Value SSD

The Avant Value SSD 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 Value 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 540MB/sec transfers, the Avant Value SSD can approach the limits of the SATA 6Gb/s interface on large transfers. Performance reaches enterprise class standards with up to 50,000 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 Value SSD 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

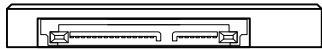
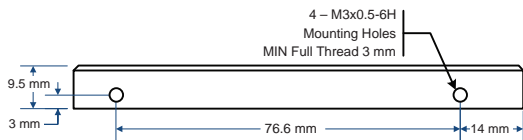
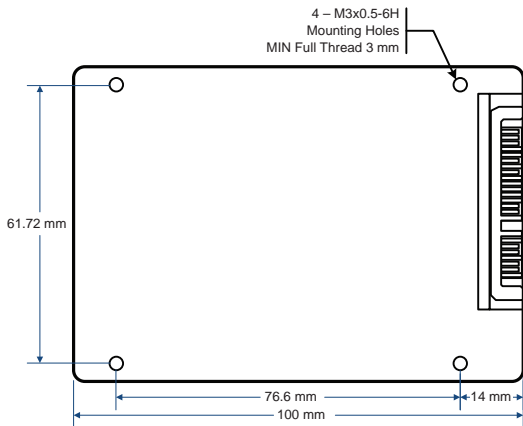
- Virtually zero spin up or seek times
- Zero rotational latency
- High sustained high-speed data transfers

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
AVSC21AC025M4	25GB		550/515	60K
AVSC21AC040M4	40GB	20%	550/515	60K
AVSC21AC050M4	50GB	28%	550/515	60K
AVSC21AC055M4	55GB	16%	550/515	60K
AVSC21AC060M4	60GB	7%	550/515	60K
AVSC21AC080M4	80GB	20%	550/515	60K
AVSC21AC090M4	90GB	7%	550/515	60K
AVSC21AC100M4	100GB	28%	550/515	60K
AVSC21AC120M4	120GB	11%	550/515	60K
AVSC21AC160M4	160GB	20%	550/515	60K
AVSC21AC180M4	180GB	7%	550/515	60K
AVSC21AC200M4	200GB	28%	550/515	60K
AVSC21AC240M4	240GB	7%	550/515	60K
AVSC21AC300M4	300GB	20%	550/515	60K
AVSC21AC360M4	360GB	7%	550/515	60K
AVSC21AC400M4	400GB	28%	550/515	60K
AVSC21AC480M4	480GB	11%	550/515	60K

Avant Value SSD - Technical Specifications

Features

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

25GB to 480GB

Host Interface

SATA 6Gb/s, 3.0Gb/s support and 1.5Gb/s support
 Native Command Queuing: 32
 SMART attribute List: Extended

Performance

Sequential Read up to 540MB/s
 Sequential Write up to 450 MB/s
 Random Read IOPS @ 4K blocks: up to 50K
 Random Write IOPS @ 4K blocks: up to 50K

Flash Memory Support

Supports MLC type
 Number of Flash Buses: 8

Power Consumption

Typical (mW) <4W
 Sleep/Slumber: <200mW

Reliability

MTTF (PoH): 2M
 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

256-bit AES compliant Data Encryption
 User Selectable Password (if BIOS supported)
 Secure Erase (Factory Reset - ATA)

Physical

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

