HYPERTEC

MAKING IT PERFORM

FirestormEssential™ SSD

Increased System Performance

Hypertec FirestormEssential™ SSDs combine enterprise performance with low power consumption to make the ideal mobile drive whilst maximising your computer investment.

The read and write performance of the Hypertec FirestormEssential™ SSD range will satisfy the most demanding gamer and power user, while the low power mode extends battery life for mobile workers.

Enterprise Class Standards

Providing a bandwidth of more than 555MB/Sec, the Hypertec FirestormEssential™ SSD can approach the limits of the SATA 6Gb/s interface on large transfers. Performance reaches enterprise class standards with up to 90,000 IOPS.

Performance & Power Optimisation

Hypertec FirestormEssential™ uses SandForce DuraClass technology which enables the SSD to maximise both endurance and performance for the life of the drive; fulfilling the promise of high speed flash memory in client computing applications and improving system performance by up to 50% (as measured by SYSmark Benchmark).

Data Protection & Reliability

Hypertec FirestormEssential™ SSDs have built in 256Bit AES encryption, controllable by a configurable user password. This feature prevents would be thieves from extracting data directly from the flash memory should they ever have access to the drive. Drives can also be sanitised by cryptokey deletion for redeployment. The Hypertec FirestormEssential™ SSD processor provides up to 100x greater data protection than today's SSDs, and leading enterprise HDDs; this is a result of superior ECC protection and unique RAISE (Redundant Array Independent Silicon Elements) technology. RAISE provides the protection and reliability of RAID on a single drive without the significant write overhead.

SandForce DRIVEN LSI



FirestormEssential™ SSD Benefits

- Reduced Power Requirements.
- Fast performance.
- Sustained high-speed data transfers.
- Virtually zero spin or seek times.
- No moving parts.
- Noise and vibration free.
- RAISE.
- 256Bit AES compliant encryption.
- Can be sanitised by cryptokey deletion for redeployment.
- Features SandForce® controller.
- Universally compatible with all systems that take a 2.5" drive.
- Ships with a 7mm to 9mm adapter.
- 60GB to 480GB Capacities.
- 1.8" 5mm, 2.5" 7mm & mSATA.
- SandForce® DuraClass Technology.

Hypertec Firestorm SSD is also available as a System Specific Solution. Please contact us for further information.

FirestormEssential™ Technical Specification

SandForce® DuraClass Technology

- DuraWrite extends the endurance of SSDs.
- Intelligent Block Management & Wear Levelling.
- Intelligent Read Management.
- Intelligent 'Recycling' for advanced free space management.
- RAISE (Redundant Array of Independant Silicon Elements).
- Best-in-class protection and drive life.

Features

- 1.8" 5mm, 2.5" 7mm & mSATA
- Lifetime performance - will not degrade over time.
- TRIM support (O/S support required).
- Windows (32 & 64-bit) Linux & Mac OSX.
- 3 years Waranty and free lifetime technical support.

Host Interface

- SATA 2.6 compliant, 6Gb/s, 3Gb/s and 1.5Gb/s support.
- Native Comand Queing: 32.
- SMART attribute list: Extended.

Performance

- IOPS up to 90,000 (4K radom write, 4K aligned).
- Read Speed: Up to 560MB/sec.
- Write Speed: Up to 525MB/sec.

Flash Memory

- Flash Type: MLC.
- P/E Cycle: 3K

Physical

- Power consumption: Typical (mW)<2.5W, Sleep: 50mW.
- Weight: <80gm.
- Operating Temperature: 0c to 70c.

Security

- 256Bit AES Encryption.
- User selectable password.
- Secure erase (Factory Reset - ATA).
- Can be santised by cryptokey for redeployment.

2.5"	Read (up to)	Write (up to)	IOPS (up to)
60GB			
SSD2S060SF1200SA2	550	515	90,000
120GB			
SSD2S120SF1200SA2	550	515	90,000
240GB			
SSD2S240SF1200SA2	560	525	90,000
480GB			
SSD2S480SF1200SA2	540	430	37,000

mSATA	Read (up to)	Write (up to)	IOPS (up to)
60GB			
SSDM060SF1200SA2	555	505	80,000
120GB			
SSDM120SF1200SA2	555	525	80,000
240GB			
SSDM240SF1200SA2	560	530	80,000
480GB			
SSDM480SF1200SA2	540	425	30,000

1.8"	Read (up to)	Write (up to)	IOPS (up to)
120GB			
SSD1120SF1200SA2	550	515	90,000
240GB			
SSD1240SF1200SA2	550	515	90,000

0844 879 2282
info@hypertec.co.uk