Product Specification

Crypto M.2 SATA 6Gbps 22x60

Full Disk Encryption
AES 256-bit

INTRODUCTION
The most secure next generation form factor encrypted SSD available.
If an ultrabook or laptop with an Integral Crypto M.2 SSD installed is lost or stolen, sensitive data is secure and cannot be accessed without the high-strength password. When the system is shut down, 256-bit full disk encryption is instigated.

Crypto M.2 SSD is the no-fuss and highly-secure solid state encryption solution for many industries including; finance, legal, health, education and government.

M.2 SATA SSD storage solutions are designed for Notebooks, Desktops, Ultrabooks and tablets. They address the need for more low powered compact storage without compromising performance and reliability of solid state drives.

FEATURES
• Military level security with AES 256-bit hardware encryption - More secure than a software-only solution.
• FIPS 140-2 Validated - Certificate No. 2126
• M.2 2260 form factor with SATA III 6Gbps interface (backwards compatible with SATA 3Gbps and SATA 1.5Gbps)
• Supports ‘M’ & ‘B’ Key sockets
• Performance: Faster boot than HDD, Faster access to applications, enhanced productivity and increased efficiency
• Fully compatible with devices and OS that support the SATA standard with M.2 M and B connectors
• Multi-lingual interface – in 14 languages*

Security Features
• Total Drive Encryption - All data stored on the Crypto M.2 SSD is encrypted (including the Operating System).
• Dual Password - As an option an Administrator can setup a user password and a master override password. If the user forgets their password, the Crypto M.2 SSD can be unlocked by the Administrator and the user password reset.
• Secure Entry - Encrypted data cannot be accessed without the correct high-strength 8-16 character alphanumeric password. An optional password hint can be set-up which cannot be the same as the password. Before use a high-strength password must be set.
• Brute-Force Password Attack Protection - Encrypted data is automatically erased after the default 6 failed password attempts (password attempts configurable to a maximum of 20). The data and encryption key are securely destroyed and the Crypto M.2 SSD is reset and can then be reused.
• Anti-Clone - Crypto M.2 SSD cannot be cloned once encryption is set.
• Tamper-Proof Design - The electronics are sealed in tamper-proof epoxy resin.
• High-speed Read/Write – The Crypto M.2 SSD has both high encryption and the main benefit of a performance SSD; a high-speed sustained data transfer rate.
• Quick Boot - Using a Crypto M.2 SSD in place of a traditional HDD can cut your ultrabook or laptop's boot time in half.
• No moving parts - greater resistance to shock and vibration
• Noise free - no spin or seek time
• Endpoint security software compatible – The Integral Crypto M.2 SSD operates comfortably with endpoint security solutions by using the configurable unique ID feature, which is part of the setup program
• Warranty – 3 Years
Product Specification

Technical Features
- MLC-NAND Flash Technology
- Compatible with Windows XP, Vista, 7, 8.1 and 10

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Read (MB/s) (up to)*</th>
<th>Write (MB/s) (up to)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>128GB</td>
<td>450</td>
<td>350</td>
</tr>
<tr>
<td>256GB</td>
<td>512</td>
<td></td>
</tr>
<tr>
<td>512GB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INTERFACE**

- Interface: SATA III 6Gbps, Also Compatible with SATA II 3Gbps and SATA 1.5Gbps
- NAND: MLC
- Form Factor: M.2 22x60 'M' & 'B' Key connector
- Standard: M.2 (previously known as Next Generation Form Factor (NGFF))

*Based on internal testing

**RELIABILITY**

- ECC algorithm: BCH - Can Correct up to 72 bits error in 1K Byte data
- MTBF: >1 Million Hours

**POWER CONSUMPTION**

- Supply Voltage: 3.3V
- Power Consumption (mW):
  - Read: 128G = 2530, 256G = 2610, 512G = 2661
  - Write: 128G = 3547, 256G = 3674, 512G = 3790
  - Idle: 128G = 298, 256G = 312, 512G = 301
- Supports SMART Software: Yes
- Supports TRIM: Yes (OS support required)
- Compliancy: CE, FCC, RoHS

**ENVIRONMENTAL**

- Operating Temp: 0° - +70°C
- Non - Operating Temp: -40° - +85°C
- Humidity: RH 90% under 40°C in operation
- Vibration: 80Hz~2000Hz / 20G

**DIMENSIONS**

- Length: 60mm
- Width: 22mm
- Height: 3.8mm
- Weight: 8g
- Length (Packed): 195mm
- Width (Packed): 125mm
- Height (Packed): 16mm
- Weight (Packed): 69g

**WARRANTY**

3 years

**APPROVED SECURITY FUNCTION CERTIFICATE**

<table>
<thead>
<tr>
<th>Security Function</th>
<th>Certificate</th>
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</thead>
<tbody>
<tr>
<td>AES (H/W implementation)</td>
<td>2175</td>
</tr>
<tr>
<td>XTS 128, XTS 256</td>
<td>2175</td>
</tr>
<tr>
<td>HMAC 512, HMAC 256</td>
<td>1335</td>
</tr>
<tr>
<td>DRBG</td>
<td>254</td>
</tr>
<tr>
<td>SHA 512, SHA 256</td>
<td>1887</td>
</tr>
</tbody>
</table>

*14 languages supported by the software GUI -
- Arabic
- Chinese
- Dutch
- English
- French
- German
- Hindi
- Italian
- Norwegian
- Polish
- Portuguese
- Russian
- Spanish
- Swedish

**CAPACITY | PART CODE | BARCODE (EAN)**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Part Code</th>
<th>Barcode (EAN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>128GB</td>
<td>INSSD128GM2M2260C140</td>
<td>5055288428270</td>
</tr>
<tr>
<td>256GB</td>
<td>INSSD256GM2M2260C140</td>
<td>5055288428287</td>
</tr>
<tr>
<td>512GB</td>
<td>INSSD512GM2M2260C140</td>
<td>5055288428294</td>
</tr>
</tbody>
</table>

1GB = 1,000,000,000 bytes. Formatted capacity is less.
Please Note: No security software can be guaranteed 100% secure.
This device should not be used as your sole backup.
Product design and specification subject to change or modification without notice. E&OE.
All trademarks acknowledged.
For products with security software or hardware; the product cannot be guaranteed to be fully secure. No security system can be considered absolute.
For warranty information please visit www.integralmemory.com/warranty
Product Specification

Rev:3