INTRODUCTION
The Integral Crypto SSD is the ideal solution for data protection. When the system is shut down, 256-bit full disk encryption is instigated.

If a PC or laptop with an Integral Crypto SSD installed is lost or stolen, sensitive data is secure and cannot be accessed without the high-strength password.

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

FEATURES
- Military level security with AES 256-bit hardware encryption - More secure than a software-only solution.
- FIPS 140-2 Validated - Certificate No. 2126
- Multi-lingual interface – in 14 languages*

Security Features
- Total Drive Encryption - All data stored on the Crypto 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 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 SSD is reset and can then be reused.
- Anti-Clone - Crypto SSD cannot be cloned once encryption is set.
- Tamper-Proof Design - The electronics are sealed in tamper-proof epoxy resin.
- Rugged Design - The electronics are sealed in tamper-free epoxy resin and then shielded by a steel outer case.
- High-speed Read/Write – The Crypto SSD has both high encryption and the main benefit of a standard SSD; a high-speed sustained data transfer rate. Read and Write times are up to 450MB/s (R) and 350MB/s (W).
- Quick Boot - Using a Crypto SSD in place of a traditional HDD can cut your desktop computer 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 SSD operates comfortably with endpoint security solutions by using the configurable unique ID feature, which is part of the software
- Warranty – 3 Years

Green Computing
- Uses 1/10 of the power of a normal spinning disk HDD
- Extends laptop battery life
- Super low power consumption during operation and sleep modes
## Technical Features

- MLC-NAND Flash Technology
- SATA III 2.5" - 7mm Height (9mm with adapter provided)
- SATA Revision 3.0 compliant
- TRIM option
- S.M.A.R.T. option
- Power management supported
- 128GB = 256MB DDR 3 Cache Buffer
- 256GB, 512GB and 1TB = 512MB DDR 3 Cache Buffer
- CE, UL and FCC certified and RoHs compliant
- Compatible with Windows XP, Vista, 7, 8.1 and 10

### PERFORMANCE & INTERFACE

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Read (MB/s)</th>
<th>Write (MB/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>128GB</td>
<td>250 (max)²</td>
<td>160 (max)²</td>
</tr>
<tr>
<td>256GB</td>
<td>450 (max)²</td>
<td>295 (max)²</td>
</tr>
<tr>
<td>512GB, 1TB</td>
<td>450 (max)²</td>
<td>375 (max)²</td>
</tr>
</tbody>
</table>

### RELIABILITY

- Wear levelling: Static & Dynamic
- MTBF: 1,000,000 hours
- ECC: 72 bit per 1KB
- Data Retention: 10 years

### POWER CONSUMPTION

- Power requirement: 5V
- Read Mode (mW): 128GB = 2,580; 256GB = 2,780; 512GB = 2,820; 1TB = 3,220
- Write Mode (mW): 128GB = 2,750; 256GB = 4,395; 512GB = 5,610; 1TB = 5,860
- Sleep Mode (mW): 128GB = 295; 256GB = 325; 512GB = 295; 1TB = 300

*The power consumption may vary depending on flash configuration and platform setting.

### ENVIRONMENTAL

- Operating Temp: 0° - +70°C
- Non - Operating Temp: -40° - +85°C
- Humidity: RH=90% under 40°C
- Vibration: 20G (80-2000Hz)
- Shock: 500G (0.2msec)

### DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>100.1mm</td>
</tr>
<tr>
<td>Width</td>
<td>69.85mm</td>
</tr>
<tr>
<td>Depth</td>
<td>7mm (9mm with height adjustment adapter applied)</td>
</tr>
<tr>
<td>Weight</td>
<td>76(g)</td>
</tr>
<tr>
<td>Length (Packed)</td>
<td>230mm</td>
</tr>
<tr>
<td>Width (Packed)</td>
<td>161mm</td>
</tr>
<tr>
<td>Depth (Packed)</td>
<td>15mm</td>
</tr>
<tr>
<td>Weight (Packed)</td>
<td>157(g)</td>
</tr>
</tbody>
</table>

### WARRANTY

3 years

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*14 languages supported by the software GUI -

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**APPROVED SECURITY FUNCTION**

<table>
<thead>
<tr>
<th>CERTIFICATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES (H/W implementation)</td>
</tr>
<tr>
<td>XTS 128, XTS 256</td>
</tr>
<tr>
<td>HMAC 512 HMAC 256</td>
</tr>
<tr>
<td>DRBG</td>
</tr>
<tr>
<td>SHA 512 SHA 256</td>
</tr>
</tbody>
</table>

- Arabic
- Chinese
- Dutch
- English
- French
- German
- Hindi
- Italian
- Norwegian
- Polish
- Portuguese
- Russian
- Spanish
- Swedish

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**CAPACITY**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Part Code</th>
<th>Barcode (EAN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64GB</td>
<td>INSSD64GS625M7CR140</td>
<td>5055288425828</td>
</tr>
<tr>
<td>128GB</td>
<td>INSSD128GS625M7CR140</td>
<td>5055288425835</td>
</tr>
<tr>
<td>256GB</td>
<td>INSSD256GS625M7CR140</td>
<td>5055288425842</td>
</tr>
<tr>
<td>512GB</td>
<td>INSSD512GS625M7CR140</td>
<td>5055288425859</td>
</tr>
<tr>
<td>1TB</td>
<td>INSSD1TS625M7CR140</td>
<td>5055288427358</td>
</tr>
</tbody>
</table>

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Electronics are sealed in tamper-proof epoxy resin

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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

¹Performance based on internal testing.

²14 languages supported by the software GUI.