## Crypto M.2 SATA 6Gbps NGFF 22x80

## 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 2280 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 highstrength 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 tamperproof 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



### **Technical Features**

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

PERFORMANO	CE				
	Read	420MB/s (up to)*			
128GB	Write	315MB/s (up to)*			
	Read	450MB/s (up to)*			
256GB, 512GB	Write	330MB/s (up to)*			
INTERFACE	White				
Interface		SATA III 6Gbps Also Compatible with SATA II 3Gbps and SATA 1.5Gbps			
NAND		MLC			
Form Factor		M.2 22x80 'M' & 'B' Key connector			
Standard		M.2 (previously known as Next Generation Form Factor (NGFF))			
*Based on internal test	ting				
RELIABILITY					
ECC algorithm		BCH - Can Correct up to 72 bits error in 1K Byte data			
MTBF		>1 Million Hours			
POWER CONS	UMPTION				
Supply Voltage		3.3V			
Power Consumption (mW)		Read : 128G = 2530 256G = 2610 512G = 2661 Write : 128G = 3547 256G = 3647 512G = 3790 Idle : 128G = 298 256G = 312 512G = 310			
Supports SMART	Software	Yes			
Supports TRIM		Yes (OS support required)			
Compliancy		CE, FCC, RoHS			
ENVIRONMEN	ITAL	l.			
Operating Temp		0° - +70°C			
Non - Operating Temp		-40° - +85°C			
Humidity		RH 90% under 40C in operation			
Vibration		80Hz~2000Hz / 20G			
DIMENSIONS					
Length		80mm			
Width		22mm			
Height		3.8mm			
Weight		9g			
Length (Packed)		195mm			
Width (Packed)		125mm			
Height (Packed)		16mm			
Weight (Packed)		69g			
WARRANTY					
3 years					

APPROVED SECURITY FUNCTION	CERTIFICATE	
AES (H/W implementation) • CBC (enc/dec; 256)	2175	
XTS 128, XTS 256	2175	
HMAC 512 HMAC 256	1335	
DRBG	254	
SHA 512 SHA 256	1887	

#### \*14 languages supported by the software GUI -

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

CAPACITY	PART CODE	BARCODE (EAN)	
128GB	INSSD128GM2M2280C140	5055288428225	
256GB	INSSD256GM2M2280C140	5055288428232	
512GB	INSSD512GM2M2280C140	5055288431348	

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.

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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**



