mSATA MO-300

2017 Model

120 GB   240 GB   480 GB

INTRODUCTION

The Integral mSATA SSD delivers all of the advantages of flash memory technology with the Serial ATA III interface and conforms to the mSATA standard generated by JEDEC, known as MO-300.

mSATA is a small form factor SSD that is around 8 times smaller than the typical 2.5 inch SSD / HDD available. It is ideal for adding storage to small form factor and embedded systems.

The SATA III super-fast performance that is delivered by the Integral mSATA, together with its reliability and low power operation make it the ideal SSD drive for embedding into new systems.

Product Overview

Choose the mSATA SSD from Integral for your embeded system storage, it will speed up your daily as boot times and increase the speed of your application, overall giving you the best experience of Solid State Computing.

FEATURES

• mSATA form factor with SATA III 6Gbps interface (backwards compatible with SATA 3Gbps and SATA 1.5Gbps)

• 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 mSATA interface

• Non-volatile Flash Memory for outstanding data retention – less likely to fail than HDD

• Ultra-efficient Block Management and Wear Levelling

• Error Correction Code

• Lower Power Consumption

• Shock resistance – No moving parts enable the product to be used in tougher conditions

• Silent operation - Noiseless and low heat dissipation

• Supports S.M.A.R.T. — Self-Monitoring, Analysis and Reporting Technology

• Supports TRIM

• RoHS compliant

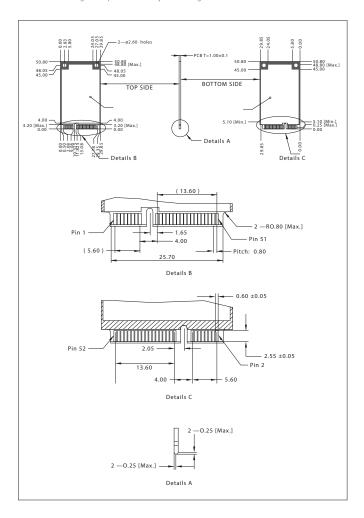• CE and FCC tested

• 3 Year Warranty

CAPACITIES & INTERFACE

CAPACITIES & INTERFACE	
Capacities available	120GB, 240GB, 480GB
Form Factor	MSATA MO300
NAND	TLC
Controller	Phison S11
Interface	SATA III 6Gbps Also compatible with SATA II 3Gbps Also compatible with SATA 1.5Gbps
Sequencial Speed (up to)*	120GB = READ 560MB/s, WRITE 375MB/s 240GB = READ 560MB/s, WRITE 470MB/s 480GB = READ 560MB/s, WRITE 540MB/s

DIMENSIONS

DIMENSIONS	
Length	50.8mm
Width	29.85mm
Height	4mm
Weight	8g
E-tail Packaged Weight	24g
E-tail Packaged Dimensions (mm)	L = 134, W = 113, D = 14

POWER CONSUMPTION

POWER CONSUMPTION	
Power Management	3.3V
Power Consumption (mW)***	120GB - Read 1,270, Write 1,350, Idle 325 240GB - Read 1,400, Write 1,450 Idle 325 480GB - Read 1,450, Write 1,650, Idle 280

ENVIRONMENTAL

ENVIRONMENTAL	
Operating Temp	0° to +70°C
Non - Operating Temp	-40° to +85°C
Humidity****	RH 90% under 40°C (operational)

FEATURES

FEATURES	
Supports SMART Software	Yes
Supports TRIM	Yes (OS support required)
ECC scheme	LDPC
MTBF	>2 Million Hours
Compliancy	CE, FCC, RoHS

WARRANTY

WARRANTY
3 years

E-tail packaging order codes

CAPACITY	PART CODE	BARCODE (EAN)
120GB	INSSD120GMSA	5055288435865
240GB	INSSD240GMSA	5055288435872
480GB	INSSD480GMSA	5055288435889

1. Performance based on "out of the box" internal testing measured under ambient temperature. Sequential R/W is measured using ATTO.

2. Power Consumption may differ according to flash configuration and platform.

3. Humidity test was for 4 hours

E&OE. Product design and specification subject to change or modification without notice.