innodisk

ServerDOM-L

3ME3 Series

Customer:	
Customer	
Part	
Number:	
Innodisk	
Part	
Number:	
Innodisk	
Model Name:	
Date:	

Innodisk	Customer
Approver	Approver

Total Solution For Industrial Flash Storage

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REVISION HISTORY

Revision	Description	Date
Preliminary	First Released	JUN, 2016
Rev 1.0	Update performance and TBW	SEP, 2016

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1. Product Overview

1.1 Introduction of Innodisk ServerDOM-L 3ME3

Innodisk ServerDOM is dedicated to the further of server design. By using ServerDOM as a boot drive, there is more space for the hot-swappable data storage devices.

Innodisk ServerDOM supports SATA III standard (6.0Gb/s) interface with excellent performance and the innovative Pin8 uses the SATA connector itself as a power supply to drive the device without external cables. It could be connected directly to the SATA on-board socket on customers' system without additional power cable. Besides, the booting time for operation and the power consumption is less than hard disk drive (HDD), and can work under harsh environment compile with ATA protocol, no additional drives are required, and the SSD can be configured as a boot device.

1.2 Product View and Models

Innodisk ServerDOM-L 3ME3 is available in follow capacities~



ServerDOM-L 3ME3 16GB, 32GB, 64GB, 128GB

Figure 1: Innodisk ServerDOM-L 3ME3

1.3 SATA Interface

Innodisk ServerDOM-L 3ME3 supports SATA III interface, and compliant with SATA I and SATA II. SATA III interface can work with Serial Attached SCSI (SAS) host system, which is used in server computer. Innodisk ServerDOM-L 3ME3 is compliant with Serial ATA Gen 1, Gen 2 and Gen 3 specification (Gen 3 supports 1.5Gbps /3.0Gbps/6.0Gbps data rate). SATA connector uses a standard 7-pin signal segment.

2. Product Specifications

2.1 Capacity and Device Parameters

ServerDOM-L 3ME3 device parameters are shown in Table 1.

LBA	Capacity	Cylinder	Heads	Sectors	User Capacity(MB)
31277232	16GB	16383	16	63	15272
62533296	32GB	16383	16	63	30533
125045424	64GB	16383	16	63	61057
250069680	128GB	16383	16	63	122104

Table 1: Device parameters

2.2 Performance

Burst Transfer Rate: 6.0Gbps

Table 2: Performance

0				
Capacity	16GB	32GB	64GB	128GB
Sequential*	100 MB/c	200 MB/c	270 MD/c	410 MD/c
Read (max.)	100 MB/s	200 MB/s	370 MB/s	410 MB/s
Sequential*	20 MD /c			140 MD/a
Write (max.)	20 MB/s	40 MB/s	80 MB/s	140 MB/s
4KB Random*	4 000 1005			10,000,1005
Read (QD32)	4,000 IOPS	5,700 IOPS	9,200 IOPS	10,000 IOPS
4KB Random*				
Write (QD32)	5,000 IOPS	8,200 IOPS	13,500 IOPS	23,000 IOPS

Note: the information is based on CrystalDiskMark 3.03 with file size 1000MB test patent

2.3 Electrical Specifications

2.3.1 Power Requirement

Table 3: Innodisk ServerDOM-L 3ME3 Power Requirement

Item	Symbol	Rating	Unit
Input voltage	V _{IN}	+5 DC +- 5%	V

2.3.2 Power Consumption

Mode	Power Consumption	
Read	420 mA (Max.)	
Write	450 mA (Max.)	
Idle	220 mA (Max.)	

Table 4: Power Consumption

2.4 Environmental Specifications

2.4.1 Temperature Ranges

Table 5: Temperature range for ServerDOM-L 3ME3

Temperature	Range
Operating	Standard Grade: 0°C to +70°C
Operating	Industrial Grade: -40°C to +85°C
Storage	-55°C to +95°C

2.4.2 Humidity

Relative Humidity: 10-95%, non-condensing

2.4.3 Shock and Vibration

Table 6: Shock/Vibration Testing for ServerDOM-L 3ME3

Reliability	Test Conditions	Reference Standards					
Vibration	7 Hz to 2K Hz, 20G, 3 axes	IEC 68-2-6					
Mechanical Shock	Duration: 0.5ms, 1500 G, 3 axes	IEC 68-2-27					

2.4.4 Mean Time between Failures (MTBF)

Table 7 summarizes the MTBF prediction results for various ServerDOM-L 3ME3 configurations. The analysis was performed using a RAM Commander[™] failure rate prediction.

- Failure Rate: The total number of failures within an item population, divided by the total number of life units expended by that population, during a particular measurement interval under stated condition.
- Mean Time between Failures (MTBF): A basic measure of reliability for repairable items: The mean number of life units during which all parts of the item perform within their specified limits, during a particular measurement interval under stated conditions.



Table 7: ServerDOM-L 3ME3 MTBF

Product	Condition	MTBF (Hours)		
Innodisk ServerDOM-L 3ME3	Telcordia SR-332 GB, 25°C	>3,000,000		

2.5 CE and FCC Compatibility

ServerDOM-L 3ME3 conforms to CE and FCC requirements.

2.6 RoHS Compliance

ServerDOM-L 3ME3 is fully compliant with RoHS directive.

2.7 Reliability

Parameter	Value						
Read Cycles	Unlimited Read Cycles						
Wear-Leveling Algorithm	Support						
BadBlocks Management	Support						
Error Correct Code	Support						
TBW* (Total Bytes Written)	Unit: TB						
16GB	4.7						
32GB	9.4						
64GB	18.8						
128GB	37.5						
* Total bytes written is based on JEDEC 218 (Solid-State Drive							
Requirements and Endurance Test Method). ** Lifespan is calculated by device written per day.							

2.8 Transfer Mode

ServerDOM-L 3ME3 support following transfer mode:

Serial ATA III 6.0Gbps

Serial ATA II 3.0Gbps

Serial ATA I 1.5Gbps

2.9 Pin Assignment

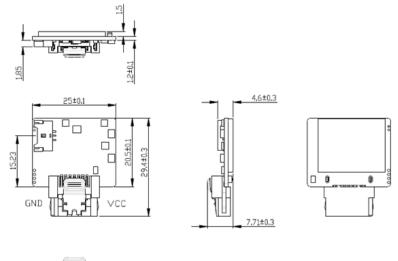


Innodisk ServerDOM-L 3ME3 uses a standard SATA pin-out. See Table 8 for ServerDOM-L 3ME3 pin assignment.

Name	Туре	Description						
Pin 0	GND	Shielding						
Pin 1	GND	Shielding						
Pin 2	A+	Differential signal to A						
Pin 3	A-	Differential signal to A-						
Pin 4	GND	Shielding						
Pin 5	В-	Differential signal to B-						
Pin 6	B+	Differential signal to B						
Pin 7	GND	Shielding						
Pin 8	VCC (+5V)	Power						

Table 8: Innodisk ServerDOM-L 3ME3 Pin Assignment

2.10 Mechanical Dimensions



TOLERANCE:±0.20 mm

2.11 Assembly Weight

An Innodisk ServerDOM-L 3ME3 within flash ICs, 64GB's weight is 8 grams approximately.

2.12 Seek Time

Innodisk ServerDOM-L 3ME3 is not a magnetic rotating design. There is no seek or rotational latency required.

2.13 Hot Plug

The SSD support hot plug function and can be removed or plugged-in during operation. User has to avoid hot plugging the SSD which is configured as boot device and installed operation system.

- Surprise hot plug : The insertion of a SATA device into a backplane (combine signal and power) that has power present. The device powers up and initiates an OOB sequence.
- Surprise hot removal: The removal of a SATA device from a powered backplane, without first being placed in a quiescent state.

2.14 NAND Flash Memory

Innodisk ServerDOM-L 3ME3 uses Multi Level Cell (MLC) NAND flash memory, which is non-volatility, high reliability and high speed memory storage.

3. Theory of Operation

3.1 Overview

Figure 2 shows the operation of Innodisk ServerDOM-L 3ME3 from the system level, including the major hardware blocks.

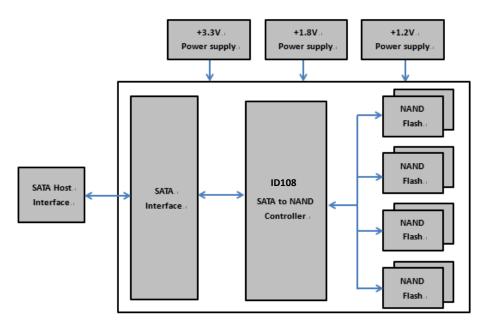


Figure 2: Innodisk ServerDOM-L 3ME3 Block Diagram

Innodisk ServerDOM-L 3ME3 integrates a SATA III controller and NAND flash memories. Communication with the host occurs through the host interface, using the standard ATA protocol. Communication with the flash device(s) occurs through the flash interface.



3.2 SATA III Controller

Innodisk ServerDOM-L 3ME3 is designed with ID 108, a SATA III 6.0Gbps (Gen. 3) controller. The Serial ATA physical, link and transport layers are compliant with Serial ATA Gen 1, Gen 2 and Gen 3 specification (Gen 3 supports 1.5Gbps/3.0Gbps/6.0Gbps data rate). The controller has 2 channels for flash interface.

3.3 Error Detection and Correction

Highly sophisticated Error Correction Code algorithms are implemented. The ECC unit consists of the Parity Unit (parity-byte generation) and the Syndrome Unit (syndrome-byte computation). This unit implements an algorithm that can correct 40 bits per 1024 bytes in an ECC block. Code-byte generation during write operations, as well as error detection during read operation, is implemented on the fly without any speed penalties.

3.4 Wear-Leveling

Flash memory can be erased within a limited number of times. This number is called the *erase cycle limit* or *write endurance limit* and is defined by the flash array vendor. The erase cycle limit applies to each individual erase block in the flash device.

Innodisk ServerDOM-L 3ME3 uses a static wear-leveling algorithm to ensure that consecutive writes of a specific sector are not written physically to the same page/block in the flash. This spreads flash media usage evenly across all pages, thereby extending flash lifetime.

3.5 Bad Blocks Management

Bad Blocks are blocks that contain one or more invalid bits whose reliability are not guaranteed. The Bad Blocks may be presented while the SSD is shipped, or may develop during the life time of the SSD. When the Bad Blocks is detected, it will be flagged, and not be used anymore. The SSD implement Bad Blocks management, Bad Blocks replacement, Error Correct Code to avoid data error occurred. The functions will be enabled automatically to transfer data from Bad Blocks to spare blocks, and correct error bit.

3.6 Power Cycling

Innodisk's iDataGuard is a comprehensive data protection mechanism that functions before and after a sudden power outage to SSD. Low-power detection terminates data writing before an abnormal power-off, while table-remapping after power-on deletes corrupt data and maintains data integrity. Innodisk's iDataGuard provides effective power cycling management, preventing data stored in flash from degrading with use.

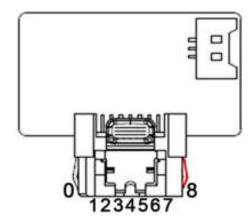


3.7 Garbage Collection

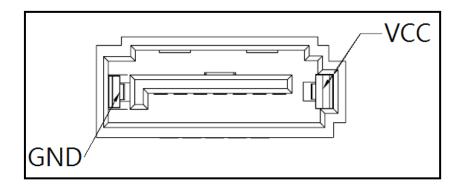
Garbage collection is used to maintain data consistency and perform continual data cleansing on SSDs. It runs as a background process, freeing up valuable controller resources while sorting good data into available blocks, and deleting bad blocks. It also significantly reduces write operations to the drive, thereby increasing the SSD's speed and lifespan.

4. Installation Requirements

4.1 ServerDOM-L 3ME3 Pin Directions



*Default power supply through pin 8 or extra power cable.





4.2 Electrical Connections for ServerDOM-L 3ME3

A Serial ATA device may be either directly connected to a host or connected to a host through a cable. For connection via cable, the cable should be no longer than 1meter. The SATA interface has a separate connector for the power supply. Please refer to the pin description for further details.

4.3 Device Drive

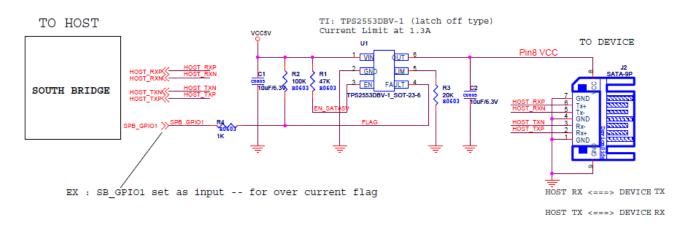


No additional device drives are required. The Innodisk ServerDOM-L 3ME3 can be configured as a boot device.

4.4 Pin8 VCC

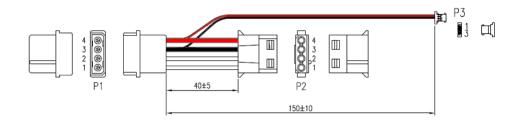
ServerDOM series with Pin8 VCC, it is defined Pin8 as VCC on the SATA connector. Thus the power would come from SATA connector Pin8 VCC. Customers DO NOT have to use the power cable for power supply. Such a wireless design of ServerDOM series with Pin8 VCC brings more convenience to customers' system. The followings are the points customers have to be careful of while designing in ServerDOM series with Pin8 VCC.

When customers use ServerDOM with Pin8 VCC and the host SATA socket does not have power on Pin8, external power must be provided to the ServerDOM from the 3pin connector on the side. To have the advantages of ServerDOM series with Pin8 VCC, and to avoid any potential damage to customers' board designed with VCC power supply, Innodisk suggests that customers MUST design their board with a fuse which should be designed before the SATA socket Pin8 VCC. In other words, customers are suggested NOT TO layout 5V VCC to SATA socket on board directly. A circuit diagram example to explain this is shown as below.



4.5 Power cable

A power cable is shipped with each SATADOM product, which has standard 4pins power connector and special 3 pins power connector for SATADOM. The male and female power connector of SATADOM have foolproof design to avoid misconnection, please check it before power on.



5. Part Number Rule

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
CODE	D	E	S	Ν	L	-	3	2	G	D	0	8	В	с	Α	Q	с	Α	-	x	x	x		
Description	Disk	Se	erver	DON	M		(Capacity Controlle					Flash Mode	Operation Temp.	Internal Control	СН.	Flash Type	Pin Type	-	- Customized Code				
											D	efini	tion											
	Code 1 st (Disk)										Code 14th (Operation Temperature)													
	D : Disk										C: Standard Grade (0°C~ +70°C)													
	Code 2 nd (Feature set)										W: Industrial Grade (-40°C~ +85°C)													
	E : Embedded Series											Code 15th (Internal control)												
	С	ode	3 rd	~5 ^{ti}	^h (Fo	orm	facto	or)					A~Z: PCB version.											
	SNL	: Ser	rver	DO	M-L	. (Lo	w pr	ofile)					Code 16th (Channel of data transfer)											
	(Code	e 7t	h ~9	9th	(Caj	pacit	y)					S: Single Channel											
													D: Dual Channels											
		160	G: 1	6GE	3, 32	2G: 3	32GB						Q: Quad Channels											
		64G	i: 64	IGB	, A2	8: 1	28GI	3					Code 17th (Flash Type)											
											Internal control													
	Code 10th ~12th (Controller)									Code 18th (pin8 type)														
	D08: ID108									A: Pin8 + power cable version														
Code 13th (Flash mode)										Cod	le 19th~2	1st (C	ustomiz	ze code)										
Internal control																								

Order Information:

Standard Grade (0°C ~ +70°C)

DESNL-16GD08BCASCA16GB ServerDOM-L 3ME3 Pin8 VCC Supported (Industrial, Standard Grade, 0C to +70C)DESNL-32GD08BCADCA32GB ServerDOM-L 3ME3 Pin8 VCC Supported (Industrial, Standard Grade, 0C to +70C)DESNL-64GD08BCAQCA64GB ServerDOM-L 3ME3 Pin8 VCC Supported (Industrial, Standard Grade, 0C to +70C)DESNL-A28D08BCAQCA128GB ServerDOM-L 3ME3 Pin8 VCC Supported (Industrial, Standard Grade, 0C to +70C)

Industrial Grade (-40°C ~ +85°C)

DESNL-16GD08BWASCA16GB ServerDOM-L 3ME3 Pin8 VCC Supported (Industrial, W&T Grade, -40 to 85C)DESNL-32GD08BWADCA32GB ServerDOM-L 3ME3 Pin8 VCC Supported (Industrial, W&T Grade, -40 to 85C)DESNL-64GD08BWAQCA64GB ServerDOM-L 3ME3 Pin8 VCC Supported (Industrial, W&T Grade, -40 to 85C)DESNL-A28D08BWAQCA128GB ServerDOM-L 3ME3 Pin8 VCC Supported (Industrial, W&T Grade, -40 to 85C)





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ROHS 自我宣告書(RoHs Declaration of Conformity)

Manufacturer Product: All Innodisk EM Flash and Dram products

一、 宜鼎國際股份有限公司(以下稱本公司)特此保證售予責公司之所有產品,皆符合歐盟 2011/65/EU 關於 RoHS 之規範要求。

Innodisk Corporation declares that all products sold to the company, are complied with European Union RoHS Directive (2011/65/EU) requirement.

二、 本公司同意因本保證書或與本保證書相關事宣有所爭議時,雙方宣友好協商,達成協議。

Innodisk Corporation agrees that both parties shall settle any dispute arising from or in connection with this Declaration of Conformity by friendly negotiations.

Name of hazardous substance	Limited of RoHS ppm (mg/kg)
de (Pb)	< 1000 ppm
汞 (Hg)	< 1000 ppm
鐍 (Cd)	< 100 ppm
六價路 (Cr 6+)	< 1000 ppm
多溴聯苯 (PBBs)	< 1000 ppm
多湊二苯醚 (PBDEs)	< 1000 ppm

立保證 🖀 人 (Guarantor)

Company name 公司名稱:<u>Innodisk Corporation 宜鼎國際股份有限公司</u>

Company Representative 公司代表人: <u>Randy Chien 箇川勝</u>

Company Representative Title 公司代表人職稿: <u>Chairman 董事長</u>

Date 🛙 🐙 : 2016 / 08 / 04





innodisk

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REACH Declaration of Conformity

Manufacturer Product: All Innodisk EM Flash and Dram products

1. 宜鼎國際股份有限公司(以下稱本公司)特此保證此售予責公司之產品,皆符合歐盟化學品 法案(Registration, Evaluation and Authorization of Chemicals; REACH)之規定 (<u>http://www.echa.europa.eu/de/candidate-list-table</u> last updated: 20/06/2016)。所提供 之產品包含:(1)產品或產品所使用到的所有原物料;(2)包裝材料;(3)設計、生產及重工過程 中所使用到的所有原物料。

We Innodisk Corporation hereby declare that our products are in compliance with the requirements according to the REACH Regulation (http://www.echa.europa.eu/de/candidate-list-table last updated: 20/06/2016). Products include : 1) Product and raw material used by the product : 2) Packaging material : 3) Raw material used in the process of design, production and rework

2.本公司同意因本保證書或與本保證書相關事宜有所爭議時,雙方宜友好協商,違成協議。

InnoDisk Corporation agrees that both parties shall settle any dispute arising from or in connection with this Declaration of Conformity by friendly negotiations.

立保證 🐐 人 (Guarantor)

Company name 公司名稱:<u>InnoDisk Corporation 宜鼎國際股份有限公司</u>

Company Representative 公司代表人: <u>Randy Chien 簡川勝</u>

Company Representative Title 公司代表人職稱:<u>Chairman 董事長</u>

Date 日 期: <u>2016 / 06 / 23</u>





CE

VERIFICATION OF COMPLIANCE

This Verification of Compliance is hereby issued to the below named company. The test results of this report relate only to the tested sample identified in this report.

Technical Standard: EMC DIRECTIVE 2014/30/EU (EN55022 / EN55024)

General Information

Applicant: Innodisk Corporation 5F., No. 237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 22161, Taiwan (R.O.C)

Product Description

EUT Description: ServerDOM-L Brand Name: Innodisk Model Number: ServerDOM-L 3\$*# (\$:Flash type: (\$:SLC, 1:iSLC, M:MLC); *:Product line: (E:Embedded, G:EverGreen, R:InnoRobust); #:Controller: (empty:106/107/167, 2:201/ 202, 3:108/109/170, 4-9:Others))

Measurement Standard

EN 55022: 2010 / AC: 2011 EN 61000-3-2: 2014 EN 61000-3-3: 2013 EN 55024: 2010 (IEC 61000-4-2: 2008; IEC 6)

(IEC 61000-4-2: 2008; IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010; IEC 61000-4-4: 2012; IEC 61000-4-5: 2014; IEC 61000-4-6: 2013; IEC 61000-4-8: 2009; IEC 61000-4-11: 2004)

Measurement Facilities

Xindian Lab.: Compliance Certification Services Inc.

No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, 23151 Taiwan. Tel: +886-2-22170894 / Fax: +886-2-22171029

This device has been shown to be in compliance with and was tested in accordance with the measurement procedures specified in the Standards & Specifications listed above and as indicated in the measurement report number: T160715D01-E

Sam Mu

Sam Hu / Assistant Manager Date: July 19, 2016







VERIFICATION OF COMPLIANCE

This Verification of Compliance is hereby issued to the below named company. The test results of this report relate only to the tested sample identified in this report.

Technical Standard: FCC Part 15 Class B IC ICES-003

General Information

Applicant:

Innodisk Corporation 5F., No. 237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 22161, Taiwan (R.O.C)

Product Description

EUT Description:	ServerDOM-L	
Brand Name:	Innodisk	
Model Number:	ServerDOM-L 3\$*#	
	(\$:Flash type: (S:SLC, I:iSLC, M:MLC);	
	*: Product line: (E:Embedded, G:EverGreen, R:InnoRobust);	
	#:Controller: (empty:106/107/167, 2:201/ 202, 3:108/109/170, 4-9:Others))	

Measurement Facilities

Xindian Lab .:

Compliance Certification Services Inc. No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, 23151 Taiwan. Tel: +886-2-22170894 / Fax: +886-2-22171029

This device has been shown to be in compliance with and was tested in accordance with the measurement procedures specified in the Standards & Specifications listed above and as indicated in the measurement report number: T160715D01-D

Sam Hu / Assistant Manager Date: July 19, 2016

