

+65-64935035

flexxon@flexxon.com

www.flexxon.com



INDUSTRIAL

MEDICAL

AUTOMOTIVE



PRODUCT CATALOGUE

Industrial NAND Flash Storage & Memory Manufacturer

About Us

FLEXXON designs, manufactures and markets Industrial NAND Flash Storage Solutions products, serving specifically the INDUSTRIAL, MEDICAL & AUTOMOTIVE (IMA) applications and customers worldwide, who demand the very highest level of reliability, endurance and wide operating temperature ranges.

Flexxon Flash-based Storage product range:

- ✓ SSD – SATA , PATA , PCIe
- ✓ SD Card / Micro SD card
- ✓ Compact Flash Card
- ✓ USB Flash Drive
- ✓ NAND Flash Modules
- ✓ eMMC
- ✓ Drive with variety of interfaces support
- ✓ Special capacity and customized features according to customer requirement

Quality and Product Reliability Assurance

Full Product Qualification Test from Component, System to Production
Full Reliability Test includes Mechanical Test, Environmental Test, Packaging Test, Printing Test, etc

QUALITY

RELIABILITY

EXPERTISE

COMMITMENT



Industrial Application

FLEXXON Industrial-Grade Products designed for industrial customers meet extreme reliability and endurance requirements. In particular, Flexxon's industrial products have undergone strict qualification testing to guarantee product reliability and longevity.

Automotive



ATM Machine



POS Machine



Medical



Musical Instrument



Test & Measurement



Payment Terminal



Vending Machine



Surveillance



Handheld Devices



Gaming



Embedded System



Solution Printer



Military



Digital Signage



Rugged Computer



Product Features

Industrial Grade

Industrial Grade	Temperature
Diamond	-40°C ~ +85°C
Gold	-25°C ~ +85°C
Silver	0°C ~ 70°C



Advance Product Functions

Advanced Flash Management

Advanced Self - Defense Mechanism

Low Power Management

Flushing Mechanism for Power Loss Protection

SSD Lifetime Management

- Static and Dynamic Wear Leveling
- Bad Block Management
- ECC
- TRIM
- SMART
- Over-Provision
- Firmware Update

Customization Services

- ✓ F.W Customization to meet full compatibility of different customer platform requirement
- ✓ PCB re-layout design to meet different requirement
- ✓ Pre-loaded Content
- ✓ Label Printing
- ✓ Packaging
- ✓ Product ID / Parameters..etc
- ✓ Laser Etching
- ✓ Format Load



USB Series

Comparison of USB Series

Series	FxU3 I		FxU3 II	FxU3 III	FxU2 I
Feature	Enhance Reliability: Crystal solution		High Performance	Ultra High Performance	Standard Performance
Interface	USB 2.0	USB 3.0	USB 3.0	SD 3.0	USB 2.0
Form Factor	USB Flash Module	Pen Driver	Pen Driver	Pen Driver	Pen Driver
No of Channels	2		1	2	1
Grade	Industrial (Silver & Diamond)		Commercial	Commercial	Commercial
Max. Performance	Read: 30 MB/s	Read: 190 MB/s	Read: 250 MB/s	Read: 400 MB/s	Read: 30 MB/s
	Write: 24 MB/s	Write: 125 MB/s	Write: 80 MB/s	Write: 300 MB/s	Write: 20 MB/s

USB Product Overview

Series	Form Factor	Capacity			MAX Read/Write (MB/s)		
		MLC	pSLC	SLC	MLC	pSLC	SLC
FxU3 I	USB Flash Module	4GB ~ 64GB	2GB ~ 32GB	256MB ~ 32GB	30/20	30/24	30/20
	Pen Driver	4GB ~ 256GB	2GB ~ 128GB	128MB ~ 32GB	190/130	140/100	170/120
	SOR Pro Driver	4GB ~ 32GB	2GB ~ 16GB	128MB ~ 8GB	190/85	140/100	65/50
FxU3 II	Pen Driver	4GB ~ 64GB	-	-	250/80	-	-
FxU3 III	Pen Driver	16GB ~ 256GB	-	-	400/300	-	-
FxU2 I	Pen Driver	4GB ~ 32GB	-	-	30/20	-	-



Industrial USB Flash Module (FxU3 I Series)



Product Features

- ✓ High Speed USB2.0 Compliant
- ✓ Backwards Compatible with USB1.1
- ✓ Advanced Flash Management: ECC, Static and Dynamic Wear Leveling, Bad Block Management
- ✓ Durable Solid-State Storage
- ✓ Low Power Consumption
- ✓ Compliant with Open Industry Standards
- ✓ RoHS Compliant

Specifications

Interface	USB 2.0 (backward compatible to USB1.1)		
Form Factor	10-pin USB port (Type D)		
Flash Type	SLC	MLC	pSLC
Capacity	SLC: 256MB ~ 32GB	MLC: 4GB ~ 64GB	pSLC: 2GB ~ 32GB
Max. Performance (Vary by flash & density)	SLC: Read: 30MB/s, Write: 20MB/s	MLC: Read: 30MB/s, Write: 20MB/s	pSLC: Read: 30MB/s, Write: 24MB/s
Operating Voltage	5V		
Operating Temp.	Silver Grade: 0 ~ 70°C		Diamond Grade: -40 ~ 85°C
Storage Temp.	-40 ~ +85°C		
Humidity	0% ~ 95%		
Shock	1500G/0.5ms		
Vibration	80~2000Hz/20G		
Dimensions	37.9 mm (L) x 26.65mm (W) x 9.7mm (H)		
MTBF(hours)	3,000,000hrs		

Ordering Information

Flash	Capacity	Part Number	
		Gold Grade	Diamond Grade
MLC	4GB	FUUD004GTTS7-033-10	FUUD004GTTE7-033-10
	8GB	FUUD008GTTS7-033-20	FUUD008GTTE7-033-20
	16GB	FUUD016GTTS7-033-20	FUUD016GTTE7-033-20
	32GB	FUUD032GTTS7-033-20	FUUD032GTTE7-033-20
	64GB	FUUD064GTTS7-033-20	FUUD064GTTE7-033-20
pSLC	2GB	FUUD002GTTS7-033-13	FUUD002GTTE7-033-13
	4GB	FUUD004GTTS7-033-23	FUUD004GTTE7-033-23
	8GB	FUUD008GTTS7-033-23	FUUD008GTTE7-033-23
	16GB	FUUD016GTTS7-033-23	FUUD016GTTE7-033-23
	32GB	FUUD032GTTS7-033-23	FUUD032GTTE7-033-23

Flash	Capacity	Part Number	
		Gold Grade	Diamond Grade
SLC	256MB	FUUD256MTSS2-033-10	FUUD256MTSE2-033-10
	512MB	FUUD512MTSS2-033-20	FUUD512MTSE2-033-20
	1GB	FUUD001GTSS2-033-20	FUUD001GTSE2-033-20
	2GB	FUUD002GTSS1-033-20	FUUD002GTSE1-033-20
	4GB	FUUD004GTSS1-033-20	FUUD004GTSE1-033-20
	8GB	FUUD008GTSS2-033-20	FUUD008GTSE2-033-20
	16GB	FUUD016GTSS2-033-20	FUUD016GTSE2-033-20
	32GB	FUUD032GTSS2-033-20	FUUD032GTSE2-033-20

Industrial USB Pen Drive (FxU3 I Series)

Product Features

- ✓ High Speed USB3.0 Sompliant
- ✓ Backwards Compatible with USB2.0 and USB1.1
- ✓ Advanced Flash Management: ECC, Static and Dynamic Wear Leveling, Bad Block Management
- ✓ Durable Solid - State Storage
- ✓ Driver-less in Windows / Mac OS / Linux
- ✓ USB I/F Superspeed Certification
- ✓ RoHS Compliant



Specifications

Interface	USB 3.0 (backward compatible to USB2.0 & USB1.1)		
Form Factor	USB Pen Drive		
Flash Type	SLC	MLC	pSLC
Capacity	SLC: 128MB ~ 32GB	MLC: 4GB ~ 256GB	pSLC: 2GB ~ 128GB
Max. Performance (Vary by flash & density)	Read: 190MB/s		Write: 130MB/s
Operating Voltage	5V		
Operating Temp.	Silver Grade: 0 ~ 70°C		Diamond Grade: -40 ~ 85°C
Storage Temp.	-40 ~ +85°C		
Humidity	0% ~ 95%		
Shock	1500G/0.5ms		
Vibration	80~2000Hz/20G		
Dimensions	55.8 mm (L) x 18.6mm (W) x 9.0mm (H)		
MTBF(hours)	2,000,000hrs		

Ordering Information

Flash	Capacity	Part Number	
		Silver Grade	Diamond Grade
MLC	4GB	FUUP004GTTS7-033-10	FUUP004GTTE7-033-10
	8GB	FUUP008GTTS7-033-10	FUUP008GTTE7-033-10
	16GB	FUUP016GTTS7-033-10	FUUP016GTTE7-033-10
	32GB	FUUP032GTTS7-033-10	FUUP032GTTE7-033-10
	64GB	FUUP064GTTS7-033-10	FUUP064GTTE7-033-10
	128GB	FUUP128GTTS7-033-10	FUUP128GTTE7-033-10
	256GB	FUUP256GTTS7-033-10	FUUP256GTTE7-033-10
pSLC	2GB	FUUP002GTTS7-033-13	FUUP002GTTE7-033-13
	4GB	FUUP004GTTS7-033-13	FUUP004GTTE7-033-13
	8GB	FUUP008GTTS7-033-13	FUUP008GTTE7-033-13
	16GB	FUUP016GTTS7-033-13	FUUP016GTTE7-033-13
	32GB	FUUP032GTTS7-033-13	FUUP032GTTE7-033-13
	64GB	FUUP064GTTS7-033-13	FUUP064GTTE7-033-13
	128GB	FUUP128GTTS7-033-13	FUUP128GTTE7-033-13

Flash	Capacity	Part Number	
		Silver Grade	Diamond Grade
SLC	128MB	FUUP128MTSS2-033-10	FUUP128MTSE2-033-10
	256MB	FUUP256MTSS2-033-10	FUUP256MTSE2-033-10
	512MB	FUUP512MTSS2-033-10	FUUP512MTSE2-033-10
	1GB	FUUP001GTSS1-033-10	FUUP001GTSE1-033-10
	2GB	FUUP002GTSS1-033-10	FUUP002GTSE1-033-10
	4GB	FUUP004GTSS2-033-10	FUUP004GTSE2-033-10
	8GB	FUUP008GTSS2-033-10	FUUP008GTSE2-033-10
	16GB	FUUP016GTSS2-033-10	FUUP016GTSE2-033-10
	32GB	FUUP032GTSS2-033-10	FUUP032GTQE2-033-10

Industrial USB SOR Pro Drive (FxU3 I Series)



Product Features

- ✓ High speed USB3.0 compliant
- ✓ Backwards compatible with USB2.0 and USB1.1
- ✓ Advanced Flash Management: ECC, Static and Dynamic Wear Leveling, Bad Block Management
- ✓ Durable solid-state storage
- ✓ Driver-less in Windows / Mac OS / Linux
- ✓ Low power consumption
- ✓ USB I/F Superspeed Certification
- ✓ RoHS Compliant

Specifications

Interface	USB 3.0 (backward compatible to USB2.0 & USB1.1)		
Form Factor	USB SOR Pro Drive		
Flash Type	SLC	MLC	pSLC
Capacity	SLC: 128MB ~ 8GB	MLC: 4GB ~ 32GB	pSLC: 2GB ~ 16GB
Max. Performance (Vary by flash & density)	Read: 190MB/s		Write: 100MB/s
Operating Voltage	5V		
Operating Temp.	Gold grade: -25 ~ 85°C		
Storage Temp.	-40 ~ +85° C		
Humidity	0% ~ 95%		
Shock	1500G/0.5ms		
Vibration	80~2000Hz/20G		
Dimensions	32.7 mm (L) x 12.3mm (W) x 4.6mm (H)		
MTBF(hours)	2,000,000hrs		

Ordering Information

Flash	Capacity	Part Number
MLC	4GB	FUSP004GTTG7-033-10
	8GB	FUSP008GTTG7-033-10
	16GB	FUSP016GTTG7-033-20
	32GB	FUSP032GTTG7-033-40
pSLC	2GB	FUSP002GTTG7-033-13
	4GB	FUSP004GTTG7-033-13
	8GB	FUSP008GTTG7-033-23
	16GB	FUSP016GTTG7-033-43

Flash	Capacity	Part Number
SLC	128MB	FUSP128MTSG2-033-10
	256MB	FUSP256MTSG2-033-10
	512MB	FUSP512MTSG2-033-10
	1GB	FUSP001GTSG1-033-10
	2GB	FUSP002GTSG1-033-20
	4GB	FUSP004GTSG1-033-40
	8GB	FUSP008GTSG1-033-80

USB Pen Drive (FxU3 II Series)

Product Features



- ✓ High Speed USB3.0 Compliant
- ✓ Backwards Compatible with USB2.0 and USB1.1
- ✓ Advanced Flash Management: ECC, Static and Dynamic Wear Leveling, Bad Block Management
- ✓ Durable Solid - State Storage
- ✓ Driver-Less in Windows / Mac OS / Linux
- ✓ USB I/F Superspeed Certification
- ✓ RoHS Compliant

Specifications

Interface	USB 3.0 (backward compatible to USB2.0 & USB1.1)	
Form Factor	USB Pen Drive	
Flash Type	MLC	
Capacity	4GB ~ 64GB	
Max. Performance (Vary by flash & density)	Read: 250MB/s	Write: 80MB/s
Operating Voltage	5V	
Operating Temp.	0 ~ 70°C	
Storage Temp.	-40 ~ +85°C	
Humidity	20% ~ 90%	
MTBF(hours)	2,000,000hrs	

Ordering Information

Flash	Capacity	Part Number
MLC	4GB	FUUP004GTTC7-073-10
	8GB	FUUP008GTTC7-073-10
	16GB	FUUP016GTTC7-073-10
	32GB	FUUP032GTTC7-073-10
	64GB	FUUP064GTTC7-073-20

USB Pen Drive (FxU3 III Series)



Product Features

- ✓ High Speed USB3.0 Compliant
- ✓ Backwards Compatible with USB2.0 and USB1.1
- ✓ Advanced Flash Management: ECC, Static and Dynamic Wear Leveling, Bad Block Management
- ✓ Durable Solid - State Storage
- ✓ Driver-less in Windows / Mac OS / Linux
- ✓ USB I/F Superspeed Certification
- ✓ RoHS Compliant

Specifications

Interface	USB 3.0 (backward compatible to USB2.0 & USB1.1)	
Form Factor	USB Pen Drive	
Flash Type	MLC	
Capacity	16GB ~ 256GB	
Max. Performance (Vary by flash & density)	Read: 400MB/s	Write: 300MB/s
Operating Voltage	5V	
Operating Temp.	0 ~ 70° C	
Storage Temp.	-40 ~ +85° C	
Humidity	20% ~ 90%	
MTBF(hours)	2,000,000hrs	

Ordering Information

Flash	Capacity	Part Number
MLC	16GB	FUUP016GTTC7-083-10
	32GB	FUUP032GTTC7-083-10
	64GB	FUUP064GTTC7-083-20
	128GB	FUUP128GTTC7-083-20
	256GB	FUUP256GTTC7-083-20



USB Pen Drive (FxU2 I Series)

Product Features

- ✓ High Speed USB2.0 Compliant
- ✓ Backwards Compatible with USB1.1
- ✓ Advanced Flash Management: ECC, Static and Dynamic Wear Leveling, Bad Block Management
- ✓ Durable Solid - State Storage
- ✓ Driver-Less in Windows / Mac OS / Linux
- ✓ RoHS Compliant



Specifications

Interface	USB 2.0 (backward compatible to USB1.1)	
Form Factor	USB Pen Drive	
Flash Type	MLC	
Capacity	4GB ~ 32GB	
Max. Performance (Vary by flash & density)	Read: 30MB/s	Write: 20MB/s
Operating Voltage	5V	
Operating Temp.	0 ~ 70°C	
Storage Temp.	-40 ~ +85°C	
Humidity	20% ~ 90%	
MTBF(hours)	2,000,000hrs	

Ordering Information

Flash	Capacity	Part Number
MLC	4GB	FUUP004GTTC7-683-10
	8GB	FUUP008GTTC7-683-10
	16GB	FUUP016GTTC7-683-10
	32GB	FUUP032GTTC7-683-10

Contact Us

Singapore

FLEXXON Pte. Ltd.
28 Genting Lane, #08-07 Platinum 28,
Singapore 349585
Tel : +65-6493 5035
Fax : +65-6493 5037
Email : flexxon@flexxon.com

Hong Kong

FLEXXON Global Ltd.
13-08, 13/F, Block E, Wah Lok Industrial Centre,
Nos. 31-35 Shan Mei Street, Fotan, Shatin, Hong Kong
Tel: +852-2711 5886
Fax: +852-3011 3058
Email : flexxon@flexxon.com

China

FLEXXON Global Ltd. Representative Office
深圳市罗湖区东门南路
Tel: +86-755-8230 8012
Fax: +86-755-6160 5039
Email : flexxon@flexxon.com

Malaysia

FLEXXON Pte. Ltd. Representative Office
Suite 12.1, 12th Floor, Menara Penang Garden,
Jalan Sultan Ahmad Shah, 10050 Penang, Malaysia
Tel: +6016-454 1909
Fax : +65-6493 5037
Email : flexxon@flexxon.com

USA

Corven Electronics, LLC
13575 58th St. North, Suite 210,
Clearwater, FL 33760
Tel: +1-727-492-4665
Email : flexxon@flexxon.com

Why **FLEXXON** ?

- ✓ Long Product Life
- ✓ Fixed BOM
- ✓ Industrial Grade
- ✓ Special Capacity & Customize Memory Solution
- ✓ Strong Technical Support
- ✓ Support HMLV (High-Mixed Low Volume)