

**IT1232**

**Secure Digital Memory Card Controller**

**Flash Support List**

**(V12.32.6.0)**

**ITE TECH. INC.**

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Revision History

Version	Revision	Date
V12.32.1.0	Formal Release	2010/05/10
V12.32.2.0	Update Card Firmware and Flash support list	2010/06/11
V12.32.3.0	Update Card Firmware and Speed class and Flash Support list	2010/07/05
V12.32.4.0	Update Card Firmware and Speed class	2010/08/20
V12.32.5.0	Update Card Firmware and Add New Flash In Support list	2010/11/12
V12.32.6.0	Add Hynix H27UAG8T2BTR In Support list	2010/11/24

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## 1. IT1232 Flash Compatibility List

This document shows the flash compatibility list of the series of IT1232-A1E controller.

IT1232 = SLC+MLC+TLC flash, MP Tool Version: V12.32.6.0

Vendor	Type	製程	Page Size	Part No.	Density	CSD Density	MP(SD) Format Density	CE #	Bus Width	Controller Version	MPTool F/W Version	Speed Class
Samsung	SLC	60nm	2K	K9F1G08U0B	128MB	120MB	120MB	1	8 bit	A1E	EM0304	Class4
	SLC	42nm	2K	K9F1G08U0D	128MB	120MB	120MB	1	8 bit	A1E	EM0304	Class4
	SLC		2K	K9F2G08U0B	256MB	244MB	243MB	1	8 bit	A1E	EM0304	Class4
	SLC		2K	K9F4G08U0B	512MB	490MB	489MB	1	8 bit	A1E	EM0304	Class6
	SLC	42nm	2K	K9F4G08U0D	256MB	490MB	489MB	1	8 bit	A1E	EM0304	Class6
	SLC	52nm	4K	K9F8G08U0M	1GB	977MB	976MB	1	8 bit	A1E	EM0304	Class6
	SLC	52nm	4K	K9KAG08U0M	2GB	1958MB	1957MB	1	8 bit	A1E	EM0304	Class6
	SLC	50nm	4K	K9WBG08U1M	4GB	3916MB	3908MB	2	8 bit	A1E	EM0304	Class10
	TLC	32nm	8K	K9ABG08U0A	4GB	3840MB	3832MB	1	8 bit	A1E	EM3004	Class4
	MLC	32nm	8K	K9GAG08U0E	2GB	1920MB	1919MB	1	8 bit	A1E	EM0304	Class4
	MLC	32nm	8K	K9G8G08U0C	1GB	958MB	957MB	1	8 bit	A1E	EM0304	Class4
	MLC	29nm	8K	K9GBG08U0A	4GB	3848MB	3840MB	1	8 bit	A1E	EM0304	Class6
	MLC	35nm	8K	K9GBG08U0M	4GB	3848MB	3840MB	1	8 bit	A1E	EM0304	Class10
	MLC	35nm	8K	K9LCG08U1M	8GB	7728MB	7720MB	2	8 bit	A1E	EM0304	Class10
	MLC	32nm	8K	K9LBG08U0E	4GB	3848MB	3840MB	1	8 bit	A1E	EM0304	Class4
	MLC	32nm	8K	K9HCG08U1E	8GB	7728MB	7720MB	2	8 bit	A1E	EM0304	Class10
	MLC	42nm	8K	K9HCG08U5D	8GB	7752MB	7744MB	4	8bit	A1E	EM0304	Class10
	MLC	35nm	8K	K9HDG08U5M	16GB	15488MB	15480MB	4	8 bit	A1E	EM0304	Class10
	MLC	35nm	8K	K9PFG08U5M	32GB	30976MB	30964MB	4	8 bit	A1E	EM0304	Class10
	MLC	42nm	8K	K9PDG08U5D	16GB	15520MB	15512MB	4	8bit	A1E	EM0304	Class10
San Disk	TLC	43nm	8K	SDTNMNAHEM-002G	2GB	1920MB	1919MB	1	8 bit	A1E	EM0304	Class4
	TLC	43nm	8K	SDTNMNAHEM-004G	4GB	3846MB	3838MB	1	8 bit	A1E	EM0304	Class4
Toshiba	TLC	43nm	8K	TC58NVG4T2ETA00	2GB	1920MB	1919MB	1	8 bit	A1E	EM0304	Class4
	TLC	43nm	8K	TC58NVG5T2ETA00	4GB	3840MB	3832MB	1	8 bit	A1E	EM0304	Class4
	TLC	43nm	8K	TH58NVG6T2ETA20	8GB	7710MB	7702MB	2	8 bit	A1E	EM0304	Class4
	MLC	32nm	8K	TC58NVG4D2FA00	2GB	1920MB	1919MB	1	8 bit	A1E	EM0304	Class6
	MLC	32nm	8K	TC58NVG5D2FTA00	4GB	3848MB	3840MB	1	8 bit	A1E	EM0304	Class4
	MLC	43nm	8K	TH58NVG7D2ELA89	16GB	15488MB	15480MB	4	8 bit	A1E	EM0304	Class10
	MLC	43nm	8K	TH58NVG8D2ELA89	32GB	30976MB	30964MB	4	8 bit	A1E	EM0304	Class10
	SLC	43nm	2K	TC58NVG2S3ETA00	512MB	490MB	489MB	1	8 bit	A1E	EM0304	Class4

Vendor	Type	製程	Page Size	Part No.	Density	CSD Density	MP(SD) Format Density	CE #	Bus Width	Controller Version	MPTool F/W Version	Speed Class
Toshiba	SLC	43nm	2K	TC58DVG3S0ETA00	1GB	977MB	976MB	1	8 bit	A1E	EM0304	Class6
Hynix	TLC	41nm	4K	H27UAG8M2MYR	2GB	1920MB	1919MB	1	8 bit	A1E	EM3004	Class2
	MLC	32nm	8K	H27UAG8T2BTR	2GB	1880MB	1879MB	1	8 bit	A1E	EM3304	Class6
	MLC	32nm	8K	H27UBG8T2ATR	4GB	3840MB	3832MB	1	8 bit	A1E	EM0304	Class6
	MLC	32nm	8K	H27UCG8U5ATR	8GB	7728MB	7720MB	2	8 bit	A1E	EM0304	Class10
	MLC	41nm	8K	H27UCG8UDMYR	8GB	7752MB	7744MB	2	8bit	A1E	EM0304	Class10
	MLC	48nm	4K	H27UCG8VFMYR	8GB	7752MB	7744MB	4	8bit	A1E	EM0304	Class10
	MLC	32nm	8K	H27UDG8V5ATR	16GB	15456MB	15448MB	2	8 bit	A1E	EM0304	Class6
	TLC	32nm	4K	H27UBG8M2AYR	4GB	3860MB	3852MB	1	8 bit	A1E	EM0304	Class2
	MLC	26nm	8K	H27UCG8T2MYR	8GB	7728MB	7720MB	1	8 bit	A1E	EM3004	Class6
	MLC	32nm	8K	H27UEG8YEAYR	32GB	30976MB	30964MB	4	8 bit	A1E	EM0304	Class4
Micron	MLC	34nm	4K	MT29F16G08CBABA	2GB	1928MB	1927MB	1	8 bit	A1E	EM0304	Class6
	MLC	34nm	4K	MT29F32G08CBABA	4GB	3860MB	3852MB	1	8 bit	A1E	EM0304	Class6
	MLC	34nm	4K	MT29F64G08CFABA	8GB	7728MB	7720MB	2	8 bit	A1E	EM0304	Class10
	MLC	34nm	4K	MT29F128G08CJABA	16GB	15488MB	15480MB	2	8 bit	A1E	EM0304	Class10
	MLC	25nm	4K	MT29F16G08CBACA	2GB	1928MB	1927MB	1	8 bit	A1E	EM3104	Class4
	MLC	25nm	4K	MT29F32G08CBACA	4GB	3860MB	3852MB	1	8 bit	A1E	EM3104	Class6
	MLC	25nm	8K	MT29F64G08CBAAA	8GB	7728MB	7720MB	1	8 bit	A1E	EM3104	Class10
	MLC	25nm	8K	MT29F128G08CFAAA	16GB	15456MB	15448MB	2	8 bit	A1E	EM3104	Class10
	MLC	25nm	8K	MT29F256G08CJAAA	32GB	30976MB	30964MB	2	8 bit	A1E	EM3104	Class10
	SLC	34nm	4K	MT29F64G08AJABA	8GB	7752MB	7744MB	2	8 bit	A1E	EM0304	Class10
	SLC			MT29F32G08ABAAA	4GB	3848MB	3840MB	1	8 bit	A1E	EM0304	Class10
Intel	MLC	34nm	4K	I29F32G08AAMDB	4GB	3860MB	3852MB	1	8 bit	A1E	EM0304	Class6
	MLC	34nm	4K	29F64G08CAMDB	8GB	7728MB	7720MB	2	8 bit	A1E	EM0304	Class10
	MLC	34nm	4K	29F16B08JAMDB	16GB	15488MB	15480MB	4	8 bit	A1E	EM0304	Class10
	MLC	25nm	4K	29F16G08AAME1	2GB	1928MB	1927MB	1	8 bit	A1E	EM3104	Class4
	MLC	25nm	8K	29F32G08AAME1	4GB	3860MB	3852MB	1	8 bit	A1E	EM3104	Class6
	MLC	25nm	8K	29F64G08AAME1	8GB	7728MB	7720MB	1	8 bit	A1E	EM3104	Class10
	MLC	25nm	8K	29F16B08CAME1	16GB	15456MB	15448MB	2	8 bit	A1E	EM3104	Class10

**Note:**

本表所列之 flash( force single only)為以聯陽半導體實驗室之樣品為測試標準並通過 72 小時讀寫測試。

The listed flash devices are based on ITETECH laboratory sample and pass 72 hours burn-in test.

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- (a) Delivery will be made Free Carrier (Incoterms), Seller's warehouse, Science-Based Industrial Park, Hsinchu, Taiwan.
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- (b) Buyer is not relying upon any warranty or representation except for those specifically stated here.

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The courts located in Hsinchu, Taiwan, Republic of China, will have the sole and exclusive jurisdiction and venue over any dispute arising out of or relating to the contract or any sale of goods hereunder. Buyer hereby consents to the jurisdiction of such courts.

**13. ATTORNEYS' FEES**

Reasonable attorneys' fees and costs will be awarded to the prevailing party in the event of litigation involving and/or relating to the enforcement or interpretation of the contract and/or any goods sold under it.