Statement of Volatility Template.

Component Information:

	Vendor Response
System Manufacturer:	Microsemi
Part Description:	SmartFusion Development Kit
Part Number (As Marked on Equipment):	A2F500-DEV-KIT-2
Technical Point of Contact:	soc_tech@microsemi.com
Remarks:	

Memory Size, Type, Purpose, Input Method, Protection Method.
For each memory device on a component, please fill out the following:

Component Information:

	Vendor Response
System Manufacturer:	STMicro
Part Description:	EEPROM 512Kb and 256Kb Ser
Part Number (As Marked on Equipment):	M24512-WMN6TP
Technical Point of Contact:	
Remarks:	
Memory Device	**Data Response**
Size (i.e. xx Mbytes, Kbytes, bits)	512KBit
Type of Memory:	Non Volatile
Can Programs write data into the device during normal operation?	Yes
Can the Operating System write data into the device during normal operation?	Yes
Does the device retain data when powered off?	Yes
How is data input into the device?	EEPROM is read/written using MSS I2C1 interface. Data entered through Hyperterminal on PC is read and written into EEPROM by invoking MSS I2C1 peripheral using embedded firmware running in the Processor (cortex M3)
How is the device write protected?	By default, it is not write-protected
Remarks:	

Component Information:

	Vendor Response
System Manufacturer:	Atmel
Part Description:	IC Flash 64MBIT 100MHZ 8VDFN
Part Number (As Marked on Equipment):	AT25DF641-MWH-TTR-ND
Technical Point of Contact:	
Remarks:	
Memory Device	**Data Response**
Size (i.e. xx Mbytes, Kbytes, bits)	64MBit
Type of Memory:	Non Volatile
Can Programs write data into the device during normal operation?	Yes
Can the Operating System write data into the device during normal operation?	Yes
Does the device retain data when powered off?	Yes
How is data input into the device?	Flash is read/written using MSS SPI1. Data entered through Hyperterminal on PC is read and written into Flash by

	using MSS SPI1 peripheral and SPI Flash drivers in the embedded firmware
How is the device write protected?	By default, it is not write-protected
Remarks:	

Component Information:

	Vendor Response
System Manufacturer:	Cypress
Part Description:	SRAM 1M x 16 CPG COM Fast Async SRAM
Part Number (As Marked on Equipment):	CY7C1061AV33-10ZXC
Technical Point of Contact:	
Remarks:	
Memory Device	**Data Response**
Size (i.e. xx Mbytes, Kbytes, bits)	16 MBit
Type of Memory:	Volatile
Can Programs write data into the device during normal operation?	Yes
Can the Operating System write data into the device during normal operation?	Yes
Does the device retain data when powered off?	No
Has is data input into the device?	SRAM is connected to EMC region 0 of SmartFusion device. Data is written into SRAM by accessing SRAM address locations using the embedded firmware running in the processor (Cortex M3).
How is the device write protected?	By default, it is not write-protected
Remarks:	

Component Information:

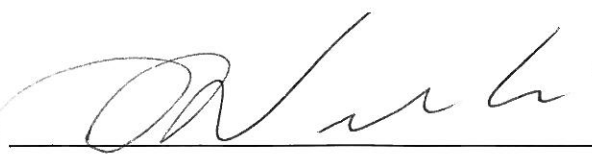|	Vendor Response
System Manufacturer:	Micron Technology
Part Description:	Flash Mem Parallel 3V/3.3V 64M-Bit 8M 8/4M 16 75ns 56-Pin TSOP Tray
Part Number (As Marked on Equipment):	JS28F640J3D75 S L8YQ
Technical Point of Contact:	
Remarks:	
Memory Device	**Data Response**
Size (i.e. xx Mbytes, Kbytes, bits)	64MBit
Type of Memory:	Non Volatile
Can Programs write data into the device during normal operation?	Yes
Can the Operating System write data into the device during normal operation?	Yes
Does the device retain data when powered off?	Yes
How is data input into the device?	Flash is connected to EMC region 1 of SmartFusion device. Data is written into Flash by accessing Flash address locations using the embedded firmware running in the processor (Cortex M3).
How is the device write protected?	By default, it is not write-protected
Remarks:	

Component Information:

	Vendor Response
System Manufacturer:	Micron Technology Inc
Part Description:	IC PSRAM 128MBIT 70NS 54VFBGA
Part Number (As Marked on Equipment):	MT45W8MW16BGX-701 IT TR
Technical Point of Contact:	
Remarks:	

Memory Device	Data Response
Size (i.e. xx Mbytes, Kbytes, bits)	128 MBit
Type of Memory:	Volatile
Can Programs write data into the device during normal operation?	Yes
Can the Operating System write data into the device during normal operation?	Yes
Does the device retain data when powered off?	No
How is data input into the device?	PSRAM is connected to EMC region 0 of SmartFusion device. Data is written into SRAM by accessing SRAM address locations using the embedded firmware running in the processor (Cortex M3).
How is the device write protected?	By default, it is not write-protected
Remarks:	This SRAM works at 1.8V. Hence, a program which converts 3.3V to 1.8V is to be loaded into AGLP125 device.

Component Information:

	Vendor Response
System Manufacturer:	Micron Technology Inc
Part Description:	IC FLASH 128MBIT 85NS 56TSOP
Part Number (As Marked on Equipment):	JS28F128P30T85A
Technical Point of Contact:	
Remarks:	

Memory Device	Data Response
Size (i.e. xx Mbytes, Kbytes, bits)	128 MBit
Type of Memory:	Non Volatile
Can Programs write data into the device during normal operation?	Yes
Can the Operating System write data into the device during normal operation?	Yes
Does the device retain data when powered off?	Yes
How is data input into the device?	Flash is connected to EMC region 1 of SmartFusion device. Data is written into Flash by accessing Flash address locations using the embedded firmware running in the processor (Cortex M3).
How is the device write protected?	By default, it is not write-protected
Remarks:	This flash works at 1.8V. Hence, a program which converts 3.3V to 1.8V is to be loaded into AGLP125 device.

Signature: _____

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<u>Engineering</u>

Date: <u>03/22/2013</u>