SOM-5788_Rev.B

Memory Test Report

Initiated by	Barry Li	**Job Title**	Senior Engineer	**Originate Date**	2010-06-23
Reviewed by		**Job Title**		**Revision**	1.0
Approved by	Shane G.H.	**Job Title**	Assistant Manager	**Release Status**	Formal Release

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Product Information

	Test Unit Information
Model	SOM-5788
Description	SMO-5788 + SOM-DB5700
PCB version	B101-1
BIOS version	788Bx007
Product phase	DVT
Produced by	ATMC
Core Chipset	QM57(Ibex Peak-M)
VGA Chipset	Integrated
LAN1 chipset	Intel 82577LM
Audio	High Definition Audio Interface
DRAM type	Dual Channel DDR3 800/1067 up to 8GB(4GB x 2)
CPU type	Intel i5-520E 2.4 GHz
Test O.S.	Windows XP with SP3

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Basic Spec Verification

Support Memory Spec Test			Test Fixture/Device No.	Test Stage	Result	Note/Issue ID
Support Memory spec test (DDR3 1066/1333)	Socket function and combination test	Single socket (each one DIMM socket)		DVT	**Pass**	
		2 sockets (1.single channel 2.dual channel)		DVT	**Pass**	
		Full Loading		DVT	**Pass**	
Support Memory spec test (DDR3 1066/1333)	Memory Speed Detection	DDR3 1066		DVT	**Pass**	
		DDR3 1333		DVT	**Pass**	
Support Memory spec test (DDR3 1066/1333)	Memory Capacity Detection	1GB		DVT	**Pass**	
		2GB		DVT	**Pass**	
		4GB		DVT	**Pass**	
		MAX. size check		DVT	**Pass**	tested memory list: 1.Apacer 4GB 2.ATP 2GB 3.Virtium 4GB
ECC protection check	DIMM1	Evaluate whether the function are workable and maintained in a stable condition when Memory data have 1 bit lost, the system can still operate continuously with stability. 1. BIOS ECC function: Enabled 2. Power on system and run memtest86+ . 3. Connect a wire from one data pin of the memory chip and short to the ground. 4. when Memory data have 1 bit lost, the system can still operate continuously with stability. 5. when Memory data have 2nd bit lost, the system will restart or hang. 6. No ECC error reported.		DVT	**Pass**	
	DIMM2			DVT	**Pass**	

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Memory Compatibility Test

SODIMM DDR3 with ECC

Brand	Size	Speed	Type	ECC	Vendor PN	Memory	Result	Note/Issue ID
Apacer	1GB	DDR3 1066	SODIMM DDR3	Y	78.02GCA.421	ELPIDA J1108BDBG-DJ-F	Pass	
	2GB	DDR3 1066	SODIMM DDR3	Y	78.A2GCA.420	ELPIDA J1108BDBG-DJ-F (128x8)	Pass	
	4GB	DDR3 1066	SODIMM DDR3	Y	78.B2GCB.AF0	HYNIX H5TQ2G83AFR (256x8)	Pass	
ATP	1GB	DDR3 1333	SODIMM DDR3	Y	AW28M7218BJH9S	SEC 001-HCH9-K4B1G0846E	Pass	
	2GB	DDR3 1333	SODIMM DDR3	Y	AW56M7228BJH9S	SEC 013-HCH9-K4B1G0846E	Pass	
Virtium	4GB	DDR3 1333	SODIMM DDR3	Y	VL41B5263A-F8S	SAMSUNG K4B2G0846B-HCH9	Pass	

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