


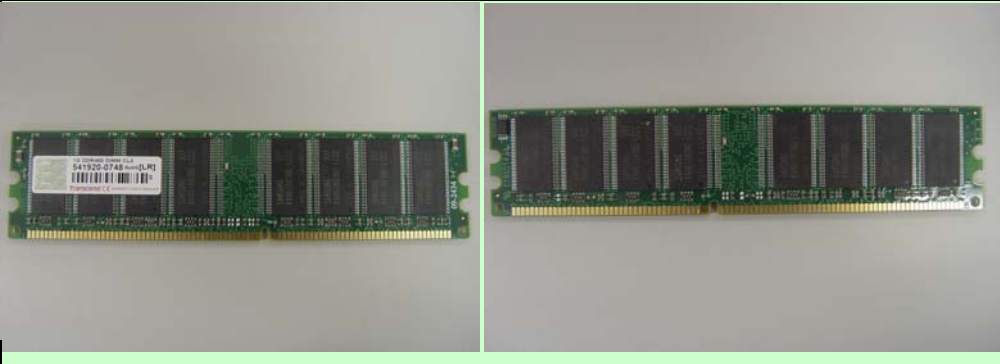
Testing Report and Approval Sheet *Performed at STEC*


Advantech Part Number	96DR-1G400NN-TR1	
Manufacturer	Transcend	
MPN	5S/TS128MLD64V4J	
Model Number	1G DDR400 DIMM CL3	
Memory Chip	SAMSUNG 937 K4H510838G-LCC	
ECC®	NA	
RoHS Status (Yes/No)	YES	


Where to use and Apply:


Configuration #1		Testing Instructions:	
AIMB-742	Testing Item	Testing Result	
A302-1	Function	PASS	
V1.29	Compatibility Test	PASS	
Intel 865G + ICH5	Reliability Test	PASS	
Configuration #2		Testing Instructions:	
PCA-6007	Testing Item	Testing Result	
A103-1	Function	PASS	
V1.11	Compatibility Test	PASS	
Intel 865GV with ICH5	Reliability Test	PASS	
Configuration #3		Testing Instructions:	
PCA-6006	Testing Item	Testing Result	
B202-1	Function	PASS	
V5.16	Compatibility Test	PASS	
Intel 845GV+ICH4	Reliability Test	PASS	
Configuration #4		Testing Instructions:	
PCM-9586Z2	Testing Item	Testing Result	
A103-1	Function	PASS	
V1.14	Compatibility Test	PASS	
Intel 852GM GMCH+ICH4	Reliability Test	PASS	
Configuration #5		Testing Instructions:	
AIMB-740	Testing Item	Testing Result	
B101-3	Function	PASS	
V2.02	Compatibility Test	PASS	
Intel 845GV Chipset	Reliability Test	PASS	
Configuration #6		Testing Instructions:	
PCM-9683	Testing Item	Testing Result	
A101-4	Function	PASS	
V1.13	Compatibility Test	PASS	
Intel 845GV+ICH4	Reliability Test	PASS	


Engineering Note and Remark:

Item	Product Information
Brand Name	<i>Transcend</i>
Vendor M/N	<i>Transcend 1G DDR400 DIMM CL3</i>
Advantech Part	<i>96DR-1G400NN-TR1</i>
Memory Chip	<i>SAMSUNG 937 K4H510838G-LCCC</i>
ECC&REG	<i>NA</i>
Product Photo	
	


Test Platform-1			
MB/SBC	AIMB-742		
PCB version	A302-1		
BIOS version	V1.29		
Core Chipset	Intel 865G + ICH5		
VGA Chipset	Intel 865GV integrated		
CPU	Pentium-4 3.20		
Memory	Transcend DDR400 1Gx4		
Function test			
Item	Pass Criteria	Result	Note
Show on POST	POST should show the correct Memory size	PASS	
Show in BIOS	BIOS should show the correct Memory size	PASS	
OS Installed	Windows XP can be installed	PASS	
Socket function and combination test	Single Channel(every DIMM socket)	PASS	Power on/off 10 times
	Dual Channel	PASS	Power on/off 10 times
	DIMM1+DIMM2+DIMM3	PASS	Power on/off 10 times
	Full Loading	PASS	Power on/off 10 times
Show in Memtest86	The software should show the correct Memory	PASS	
Show in CPU-Z	CPU-Z for SPD detect the correct Memory information	 C:\Documents and Settings\tom	截图(SPD)粘贴


Test Platform-2			
MB/SBC	PCA-6007		
PCB version	A103-1		
BIOS version	V1.11		
Core Chipset	Intel 865GV with ICH5		
VGA Chipset	Intel 865GV integrated		
CPU	Pentium-4 2.4		
Memory	Transcend DDR400 1Gx2		
Function test			
Item	Pass Criteria	Result	Note
Show on POST	POST should show the correct Memory size	PASS	
Show in BIOS	BIOS should show the correct Memory size	PASS	
OS Installed	Windows XP can be installed	PASS	
Socket function and combination test	Single Channel(every DIMM socket)	PASS	Power on/off 10 times
	Dual Channel	PASS	Power on/off 10 times
	DIMM1+DIMM2+DIMM3	PASS	Power on/off 10 times
	Full Loading	PASS	Power on/off 10 times
Show in Memtest86	The software should show the correct Memory	PASS	
Show in CPU-Z	CPU-Z for SPD detect the correct Memory information	 C:\Documents and Settings\tom	截图(SPD)粘贴

Test Platform-3			
MB/SBC	PCA-6006		
PCB version	B202-1		
BIOS version	V5.16		
Core Chipset	Intel 845GV+ICH4		
VGA Chipset	Intel 845GV integrated		
CPU	Pentium-4 2.8		
Memory	Transcend DDR400 1Gx2		
Function test			
Item	Pass Criteria	Result	Note
Show on POST	POST should show the correct Memory size	PASS	
Show in BIOS	BIOS should show the correct Memory size	PASS	
OS Installed	Windows XP can be installed	PASS	
Socket function and combination test	Single Channel(every DIMM socket)	PASS	Power on/off 10 times
	Dual Channel	PASS	Power on/off 10 times
	DIMM1+DIMM2+DIMM3	PASS	Power on/off 10 times
	Full Loading	PASS	Power on/off 10 times
Show in Memtest86	The software should show the correct Memory	PASS	
Show in CPU-Z	CPU-Z for SPD detect the correct Memory information	 C:\Documents and Settings\tom	截图(SPD)粘贴

Test Platform-4			
MB/SBC	PCM-9586Z2		
PCB version	A103-1		
BIOS version	V1.14		
Core Chipset	Intel 852GM GMCH+ICH4		
VGA Chipset	Intel 852GM Integrated		
CPU	Intel® Mobile CPU 600MHz(Onboard)		
Memory	Transcend DDR400 1Gx2		
Function test			
Item	Pass Criteria	Result	Note
Show on POST	POST should show the correct Memory size	PASS	
Show in BIOS	BIOS should show the correct Memory size	PASS	
OS Installed	Windows XP can be installed	PASS	
Socket function and combination test	Single Channel(every DIMM socket)	PASS	Power on/off 10 times
	Dual Channel	PASS	Power on/off 10 times
	DIMM1+DIMM2+DIMM3	PASS	Power on/off 10 times
	Full Loading	PASS	Power on/off 10 times
Show in Memtest86	The software should show the correct Memory	PASS	
Show in CPU-Z	CPU-Z for SPD detect the correct Memory information	 C:\Documents and Settings\tom	截图(SPD)粘贴

Test Platform-5	
MB/SBC	AIMB-740
PCB version	B101-3

BIOS version	V2.02		
Core Chipset	Intel 845GV Chipset		
VGA Chipset	Intel 845GV Chipset Integrated		
CPU	Celeron-2.80		
Memory	Transcend DDR400 1Gx4		
Function test			
Item	Pass Criteria	Result	Note
Show on POST	POST should show the correct Memory size	PASS	
Show in BIOS	BIOS should show the correct Memory size	PASS	
OS Installed	Windows XP can be installed	PASS	
Socket function and combination test	Single Channel(every DIMM socket)	PASS	Power on/off 10 times
	Dual Channel	PASS	Power on/off 10 times
	DIMM1+DIMM2+DIMM3	PASS	Power on/off 10 times
	Full Loading	PASS	Power on/off 10 times
Show in Memtest86	The software should show the correct Memory	PASS	
Show in CPU-Z	CPU-Z for SPD detect the correct Memory information	 C:\Documents and Settings\tom	截图(SPD)粘贴

Test Platform-6			
MB/SBC	PCM-9683		
PCB version	A101-4		
BIOS version	V1.13		
Core Chipset	Intel 845GV+ICH4		
VGA Chipset	Intel 845GV Integrated		
CPU	Celeron-2.80		
Memory	Transcend DDR400 1Gx4		
Function test			
Item	Pass Criteria	Result	Note
Show on POST	POST should show the correct Memory size	PASS	
Show in BIOS	BIOS should show the correct Memory size	PASS	
OS Installed	Windows XP can be installed	PASS	
Socket function and combination test	Single Channel(every DIMM socket)	PASS	Power on/off 10 times
	Dual Channel	PASS	Power on/off 10 times
	DIMM1+DIMM2+DIMM3	PASS	Power on/off 10 times
	Full Loading	PASS	Power on/off 10 times
Show in Memtest86	The software should show the correct Memory	PASS	
Show in CPU-Z	CPU-Z for SPD detect the correct Memory information	 J:\9683\400. JPG	截图(SPD)粘贴

Test Platform-1		
MB/SBC	AIMB-742	
PCB version	A302-1	
BIOS version	V1.29	
Core Chipset	Intel 865G + ICH5	
VGA Chipset	Intel 865GV integrated	
Test software	MemTest86+ V4.00	
Criteria	Run MemTest86+ V4.00 3 Cycles No error.	
Memory	Transcend DDR400 1Gx4	
Compatibility test		
Item	Result	Note
Pentium-4 3.20+800	PASS	Frequency:400,Size:3923968K+8M,less than actual size 262144
Celeron D 2.66+533	PASS	Frequency:333,Size:3923968K+8M,less than actual size 262144
Celeron-2.80+400	PASS	Frequency:266,Size:3923968K+8M,less than actual size 262144
Pentium-4 3.06+533	PASS	Frequency:333,Size:3923968K+8M,less than actual size 262144

Test Platform-2		
MB/SBC	PCA-6007	
PCB version	A103-1	
BIOS version	V1.11	
Core Chipset	ICH5	
VGA Chipset	Intel 865GV integrated	
Test software	MemTest86+ V4.00	
Criteria	Run MemTest86+ V4.00 3 Cycles No error.	
Memory	Transcend DDR400 1Gx2	
Compatibility test		
Item	Result	Note
Pentium-4 2.4+533	PASS	Frequency:333,Size:2088960K+8M,the same as the actual.
Pentium-4 3.20+800	PASS	Frequency:400,Size:2088960K+8M,the same as the actual.
Celeron D 2.66+533	PASS	Frequency:333,Size:2088960K+8M,the same as the actual.

Test Platform-3		
MB/SBC	PCA-6006	
PCB version	B202-1	
BIOS version	V5.16	
Core Chipset	Intel 845GV+ICH4	
VGA Chipset	Intel 845GV integrated	
Test software	MemTest86+ V4.00	
Criteria	Run MemTest86+ V4.00 3 Cycles No error.	
Memory	Transcend DDR400 1Gx2	
Compatibility test		
Item	Result	Note
Pentium-4 2.8+533	PASS	Frequency:333,Size:2087936K+8M,less than actual size 1024K
Celeron-2.80+400	PASS	Frequency:266,Size:2087936K+8M,less than actual size 1024K

Test Platform-4		
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MB/SBC	PCM-9586Z2	
PCB version	A103-1	
BIOS version	V1.14	
Core Chipset	Intel 852GM GMCH+ICH4	
VGA Chipset	Intel 852GM Integrated	
Test software	MemTest86+ V4.00	
Criteria	Run MemTest86+ V4.00 3 Cycles No error.	
Memory	Transcend DDR400 1Gx2	
Compatibility test		
Item	Result	Note
Intel® Mobile CPU 600MHz/(Onboard)	PASS	Frequency:266,Size:2064384K+32768k,the same as the actual.

Test Platfrom-5		
MB/SBC	PCM-9683	
PCB version	A101-4	
BIOS version	V1.13	
Core Chipset	Intel 845GV+ICH4	
VGA Chipset	Intel 845GV Integrated	
Test software	MemTest86+ V4.00	
Criteria	Run MemTest86+ V4.00 3 Cycles No error.	
Memory	Transcend DDR400 1Gx2	
Compatibility test		
Item	Result	Note
Celeron-2.80+400	PASS	Frequency:266,Size:2088960K+8M,the same as the actual.

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Test Platform-1					
MB/SBC	AIMB-742				
PCB version	A302-1				
BIOS version	V1.29				
Core Chipset	Intel 865G + ICH5				
VGA Chipset	Intel 865GV integrated				
CPU	Pentium-4 3.20				
Memory	Transcend DDR400 1Gx4				
Performance test					
O.S	Windows XP English with/SP3				
Test Software-1	Item	Result			
SiSoftware Sandra Lite Xllc 12.34.2008.1	Memory Bandwidth-Int Buff'd (MB/s)	4283			
	Memory Bandwidth Float Buff'd (MB/s)	4242			
	Memory (Random Access) Latency (ns)	149			
	Memory Latency-Speed Factor	109.4			
Test Software-2	Item	Result			
PCMark05 V1.20		16MB	8MB	192KB	4KB
	Memory read(MB/S)	5372.333	5484.825	25475.13	39985.18
	Memory write(MB/S)	4019.148	4017.951	10823.27	10841.12
	Memory copy(MB/S)	4014.111	4002.525	9567.447	10854.06
	Memory latency-	6.867	7.315	134.25	798.106
	Memory score	3866			

Test Platform-2					
MB/SBC	PCA-6007				
PCB version	A103-1				
BIOS version	V1.11				
Core Chipset	Intel 865GV with ICH5				
VGA Chipset	Intel 865GV integrated				
CPU	Pentium-4 2.4				
Memory	Transcend DDR400 1Gx2				
Performance test					
O.S	Windows XP English with/SP3				
Test Software-1	Item	Result			
SiSoftware Sandra Lite Xllc 12.34.2008.1	Memory Bandwidth-Int Buff'd (MB/s)	2957			
	Memory Bandwidth Float Buff'd (MB/s)	3049			
	Memory (Random Access) Latency (ns)	173			
	Memory Latency-Speed Factor	184.8			
Test Software-2	Item	Result			
PCMark05 V1.20		16MB	8MB	192KB	4KB
	Memory read(MB/S)	3259.757	3291.603	18658.58	34060.6
	Memory write(MB/S)	2696.898	2696.615	10435.97	10396.03
	Memory copy(MB/S)	2625.753	2521.356	7414.826	10394.78
	Memory latency-	6.614	6.933	123.002	1198.451
	Memory score	3142			

Test Platform-3					
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MB/SBC	PCA-6006				
PCB version	B202-1				
BIOS version	V5.16				
Core Chipset	Intel 845GV+ICH4				
VGA Chipset	Intel 845GV integrated				
CPU	Pentium-4 2.8				
Memory	Transcend DDR400 1Gx1				
Performance test					
O.S	Windows XP English with/SP3				
Test Software-1	Item	Result			
SiSoftware Sandra Lite Xllc 12.34.2008.1	Memory Bandwidth-Int Buff'd (MB/s)	1622			
	Memory Bandwidth Float Buff'd (MB/s)	1243			
	Memory (Random Access) Latency (ns)	212			
	Memory Latency-Speed Factor	76.9			
Test Software-2	Item	Result			
PCMark05 V1.20		16MB	8MB	192KB	4KB
	Memory read(MB/S)	1812.657	1886.747	12717.89	21200.72
	Memory write(MB/S)	1722.005	1721.642	5396.351	5408.899
	Memory copy(MB/S)	1638.616	1621.948	4774.602	5413.84
	Memory latency-	5.035	5.358	67.942	398.411
Memory score	1854				

Test Platform-4					
MB/SBC	PCM-9586Z2				
PCB version	A103-1				
BIOS version	V1.14				
Core Chipset	Intel 852GM GMCH+ICH4				
VGA Chipset	Intel 852GM Integrated				
CPU	Intel® Mobile CPU 600MHz(Onboard)				
Memory	Transcend DDR400 1Gx1				
Performance test					
O.S	Windows XP English with/SP3				
Test Software-1	Item	Result			
SiSoftware Sandra Lite Xllc 12.34.2008.1	Memory Bandwidth-Int Buff'd (MB/s)	1505			
	Memory Bandwidth Float Buff'd (MB/s)	1577			
	Memory (Random Access) Latency (ns)	205			
	Memory Latency-Speed Factor	34.8			
Test Software-2	Item	Result			
PCMark05 V1.20		16MB	8MB	192KB	4KB
	Memory read(MB/S)	1759.855	1769.008	2600.283	4509.113
	Memory write(MB/S)	1713.891	1720.165	2420.65	4182.956
	Memory copy(MB/S)	1505.147	1502.571	1917.023	3737.39
	Memory latency-	6.102	6.445	65.964	199.281
Memory score	1268				

Test Platform-5	
MB/SBC	AIMB-740
PCB version	B101-3
BIOS version	V2.02

Core Chipset	<i>Intel 845GV Chipset</i>				
VGA Chipset	<i>Intel 845GV Chipset Integrated</i>				
CPU	<i>Celeron-2.80</i>				
Memory	<i>Transcend DDR400 1Gx1</i>				
Performance test					
O.S	Windows XP English with/SP3				
Test Software-1	Item	Result			
SiSoftware Sandra Lite Xllc 12.34.2008.1	Memory Bandwidth-Int Buff'd (MB/s)	1607			
	Memory Bandwidth Float Buff'd (MB/s)	1622			
	Memory (Random Access) Latency (ns)	229			
	Memory Latency-Speed Factor	277.9			
Test Software-2	Item	Result			
		16MB	8MB	192KB	4KB
PCMark05 V1.20	Memory read(MB/S)	1725.179	1727.507	1794.301	39098.01
	Memory write(MB/S)	1693.731	1682.508	612.996	11913.01
	Memory copy(MB/S)	1622.216	1578.128	595.74	11905.25
	Memory latency-	5.718	6.299	7.778	1393.634
	Memory score	1368			

Test Platform-6					
MB/SBC	<i>PCM-9683</i>				
PCB version	<i>A101-4</i>				
BIOS version	<i>V1.13</i>				
Core Chipset	<i>Intel 845GV+ICH4</i>				
VGA Chipset	<i>Intel 845GV Integrated</i>				
CPU	<i>Celeron-2.80</i>				
Memory	<i>Transcend DDR400 1Gx1</i>				
Performance test					
O.S	Windows XP English with/SP3				
Test Software-1	Item	Result			
SiSoftware Sandra Lite Xllc 12.34.2008.1	Memory Bandwidth-Int Buff'd (MB/s)	1594			
	Memory Bandwidth Float Buff'd (MB/s)	1610			
	Memory (Random Access) Latency (ns)	230			
	Memory Latency-Speed Factor	288.3			
Test Software-2	Item	Result			
		16MB	8MB	192KB	4KB
PCMark05 V1.20	Memory read(MB/S)	1714.996	1730.394	1796.693	39541.46
	Memory write(MB/S)	1700.545	1674.529	625.704	12017.42
	Memory copy(MB/S)	1615.163	1591.868	614.382	11950
	Memory latency-	5.493	6.306	7.992	1393.711
	Memory score	1373			

1. Room Temperature

Test Platform-1		
MB/SBC	AIMB-742	
PCB version	A302-1	
BIOS version	V1.29	
Core Chipset	Intel 865G + ICH5	
VGA Chipset	Intel 865GV integrated	
CPU	Pentium-4 3.20	
Memory	Transcend DDR400 1Gx4	
O.S	Windows XP with SP3	
Reliability Test		
Test software	Pass Criteria	Result
Power on/off	Power on off 100 times, successful boot rate 100%	PASS
Burn_inV6.0	The result should be PASS when running Burn_in V6.0 for 12	PASS

Test Platform-2		
MB/SBC	PCA-6007	
PCB version	A103-1	
BIOS version	V1.11	
Core Chipset	Intel 865GV with ICH5	
VGA Chipset	Intel 865GV integrated	
CPU	Pentium-4 2.4	
Memory	Transcend DDR400 1Gx2	
O.S	Windows XP with SP3	
Reliability Test		
Test software	Pass Criteria	Result
Power on/off	Power on off 100 times, successful boot rate 100%	PASS
Burn_inV6.0	The result should be PASS when running Burn_in V6.0 for 12	PASS

Test Platform-3		
MB/SBC	PCA-6006	
PCB version	B202-1	
BIOS version	V5.16	
Core Chipset	Intel 845GV+ICH4	
VGA Chipset	Intel 845GV integrated	
CPU	Pentium-4 2.8	
Memory	Transcend DDR400 1Gx2	
O.S	Windows XP with SP3	
Reliability Test		
Test software	Pass Criteria	Result
Power on/off	Power on off 100 times, successful boot rate 100%	PASS
Burn_inV6.0	The result should be PASS when running Burn_in V6.0 for 12	PASS

Test Platform-4		
MB/SBC	PCM-9586Z2	
PCB version	A103-1	

BIOS version	V1.14	
Core Chipset	Intel 852GM GMCH+ICH4	
VGA Chipset	Intel 852GM Integrated	
CPU	Intel® Mobile CPU 600MHz(Onboard)	
Memory	Transcend DDR400 1Gx2	
O.S	Windows XP with SP3	
Reliability Test		
Test software	Pass Criteria	Result
Power on/off	Power on off 100 times, successful boot rate 100%	PASS
Burn_inV6.0	The result should be PASS when running Burn_in V6.0 for 12	PASS

Test Platform-5		
MB/SBC	AIMB-740	
PCB version	B101-3	
BIOS version	V2.02	
Core Chipset	Intel 845GV Chipset	
VGA Chipset	Intel 845GV Chipset Integrated	
CPU	Celeron-2.80	
Memory	Transcend DDR400 1Gx2	
O.S	Windows XP with SP3	
Reliability Test		
Test software	Pass Criteria	Result
Power on/off	Power on off 100 times, successful boot rate 100%	PASS
Burn_inV6.0	The result should be PASS when running Burn_in V6.0 for 12	PASS

Test Platform-6		
MB/SBC	PCM-9683	
PCB version	A101-4	
BIOS version	V1.13	
Core Chipset	Intel 845GV+ICH4	
VGA Chipset	Intel 845GV Integrated	
CPU	Celeron-2.80	
Memory	Transcend DDR400 1Gx2	
O.S	Windows XP with SP3	
Reliability Test		
Test software	Pass Criteria	Result
Power on/off	Power on off 100 times, successful boot rate 100%	PASS

Requestor:	Testing Engineer:	Finished Date:
Feng.Qin	Mark.ma	2010-1-21