

Main board Product Certification Report

Release No: 03E010003

Product Model	PCM-5335
Product Description	GX1-300, PC/104 CPU Module with LCD & SSD
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB: PCM-5335 Rev: B1.0 <input checked="" type="checkbox"/> BIOS: PCM-5335 BIOS Rev: 1.0 (11/20/2002) <input type="checkbox"/> Renew product <input type="checkbox"/> PCB: <input type="checkbox"/> BIOS: <input type="checkbox"/> Revision change <input type="checkbox"/> PCB: <input type="checkbox"/> BIOS: <input type="checkbox"/> Component:

2003-01-02

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Issue date

A.V.P.

Test Engineer

Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Qaplusfe 5.5 Operating at 0°C~60°C for 48hours)	Pass
Dynamic Burn-In test. (Power On/Off Operating at 0°C~60°C for 24hours)	Pass
LAN Chipset Burn_In Test. (Operating at 0°C & 60°C for 2hours)	Pass
Boot_Up Burn_In Test. (Operating at Room Temp.)	Pass
Timer Accuracy Test	Result
System clock accuracy of +/-5 sec per day.	Pass
RTC timer accuracy of +/-3 sec per day.	Pass
Watchdog timer accuracy of +/-20 % per sec/ min.	Note ¹
Margin Test – Power Consumption – GX1 300MHz, SODRAM 128MB	Result
Electrical characteristics – Normal Mode (+5V)	0.78 A
Electrical characteristics – Standby Mode (+5V)	0.29 A
Network HUB/LAN Connects Test	Result
LAN1 HP J4095A 24Ports [100 /10 Mbps]	Pass
LAN1 D-Link DES-1008 [100 / 10 Mbps]	Pass
LAN1 Intel InBusiness 8 Ports [100 / 10 Mbps]	Pass
LAN1 LEMEL LM-S5 5 Ports [100 / 10 Mbps]	Pass
LAN1 Accton DeskTop-3005 [100 / 10 Mbps]	Pass
LAN1 SVEC FD916H [10 Mbps]	Pass
Touch Screen for serial Ports Test	Result
COM 1 Serial Port	Pass
COM 2 Serial Port	Pass
CPU Compatible Test	Result
Cyrix MediaGX with MMX-S 300MHz (33 FSB)	Pass
Memory Test – SODRAM PC-133/100	Result
NEC / D45128163G5-A80-9JF / PC100 / 128MB	Pass
HITACHI / HB52F328DC-75B / PC-133 / 256MB	Pass
HDD Compatible Test	Result
IBM DTLA-307075 / 76.8GB / ATA100	Paas
Fujitsu MPE 3136AH / 13.6GB / ATA66	Paas
Maxtor 4G160J8 / 160GB / ATA133	Fail ¹
Maxtor 54610H6 / 46.1GB / ATA100	Paas
Maxtor 54098U8 / 40.9GB / ATA66	Paas
Quantum QMP30000AS-A / 30GB / ATA100	Paas
Quantum Fireball™ Ict/ 20.4GB/ ATA66	Paas
Seagate ST380021A / 80GB / ATA100	Paas
Seagate ST301021A / 10.2GB	Paas

CDROM / DVDROM Test	Result
NEC C&C-BCD F561B / 52X	Pass
ASUS CD-S500/A / 50X	Pass
TEAC CD-540E / 40X	Pass
SONY CDU4811-81 / 48X	Pass
CREATIVE CD5220E / 52X	Pass
CREATIVE DVD1240E / 12X / DVD-ROM	Pass
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	Pass
Acer DVP 1640A /16X /DVD-ROM	Pass
AFREEY CD-2050E / 50X	Pass
BENQ 652A-674/ 52X	Pass
Kodak 4802/ 6X	Pass
USB Compatible Test	Result
CMOS Setting Test	Pass
CyberLink Power DVD XP4.0 Remote control	Pass
Acer 6406EU-122 CD-ROM	Pass
HP SJ4200C Scanner	Pass
HP Photo Smart P1000 Print	Pass
IOMEGA ZIP 100MB	Pass
D-Link DSB-H4/ DU-H4 HUB	Pass
MITSUMI FLL3.5 D353GUE/FUE	Pass
Floppy Disk Controller Test	Result
Copy and Compare file between C : and A/B	Pass
Format A/B with system transfer and boot PC from floppy	Pass
Change CMOS Floppy is NONE value	Pass
SWAP FDD	Pass
Peripheral Storage Device Compatible test	Result
IOMEGA ZIP100M (Parallel Type)	Pass
IOMEGA ZIP100M (IDE Type)	Pass
LS-120 / LKM-F930-1 (IDE Type)	Pass
Compact Flash	Pass
Industry Control Adapter Card Compatible Test-PC104	Result
AAEON PCM-5600 / Fax/Modem Module	Pass
AAEON PCM-3115B / PCMICA Module	Pass
AAEON PCM-3640 / RS-232 Module	Pass
On Board I / O Function Test	Result
COM Port Send-Receive Test	Pass
CheckIt 7.0 Portable Edition Test	Pass
Disk On Module [DOM] Compatibility Test	Result
DOM-064-426P /Rev.A2A11 / IDE 44 Pin	Pass

BIOS Function Test	Result
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power manager test	Pass
CMOS backup Test	Pass
Boot ROM Test	Pass
COM Address/IRQ Test	Pass
LPT Address /IRQ Test	Pass
Supervisor / User Password Test	Pass
BIOS Awdflash Program Test	Pass
Performance Test – CPU GX1 300MHz, SODRAM 128MB	Result
LandMark Speed 2.0 – CPU	1289.02 MHz
LandMark Speed 2.0 – FPU	3374.60 MHz
LandMark Speed 2.0 – VIDEO	33 Chr/ms
WinBench 99 V1.1- CPU mark99	8.47
WinBench 99 V1.1- FPU winmark	417
WinBench 99 V1.1- Business Graphic winmark99	27.9 TB/s
WinBench 99 V1.1- High_end Graphic winmark99	73.9 MP/s
Final Reality V1.01 BenchMark Test – 2D image	1.46
Final Reality V1.01 BenchMark Test – 3D	0.32
Final Reality V1.01 BenchMark Test – Bus transfer	1.52
Final Reality V1.01 BenchMark Test – Overall	0.84
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	0.109
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	7.1
WinStone 99 V1.1 – High_end winstone99	9.53
WinStone 99 V1.1 – Business winstone99	9.66
Operation System Compatible Test	Result
Linux Red Hat 7.2	Fail²
Windows 98SE English / Chinese version	Pass
Windows NT workstation 4.0 English version with service pack 6	Pass
Windows NT server 4.0 English version	Pass
Windows NT server 4.0 Chinese (Simplified character) version	Pass
DOS and DOS Utility Compatibility Testing	Pass
Utility and Driver Test	Result
Red hat Linux 7.2 hardware compatible list for VGA	Pass
Red hat Linux 7.2 hardware compatible list for LAN	Pass
VGA for Windows 98SE (Onboard NS CS5530A 4.10.01.1307)	Pass
VGA for Windows NT 4.0 (Onboard NS CS5530A 5.05.04.1019,4.0.0)	Pass
LAN for Windows 98SE (Realtek RTL8139DL 5.504.613.200)	Pass
LAN for Windows NT 4.0 (Realtek RTL8139DL)	Pass

LCD Monitor Function Test	Result
CRT+LCD – Dual Display Function Test	Note²
Toshiba / LTM10C273 / TFT / 10.4"	Pass
NEC / NL6448BC33-46 / TFT / 10.4"	Pass
Miscellaneous Test	Result
Windows 98 Power manager test	Pass
H/W Reset	Pass
Ext. Speaker	Pass
On board buzzer	Pass
HDD LED	Pass
Power LED	Pass
LAN LED	Pass
Watchdog – Software Programming	Note¹
COM1	Pass
COM2	Pass
COM2-RS-422	Pass
COM2-RS-485	Pass
LPT1	Pass
PS2 Keyboard / Mouse	Pass
SIR / 115K bps	Pass
LCD Display Function Test	Pass

Summary OF Result	
Fail¹	Can't support > 136GB HDD. (AWARD code 不支援 NS CS5530A 更新, 故只能支援 40GB < HDD < 136GB)
Fail²	Virtual consoles function is fail. (PM Steve 指示不修改)
Note¹	The watchdog-reset time isn't accurate. Set "1" => reset after 15 sec Set "2" => reset after 45 sec Set "3" => reset after 75 sec.....
Note²	CRT 搭配 LCD 顯示時, 在進入 Windows 前 Monitor 有明顯內縮現象
Note³	BIOS 在顯示" Award Plug and Play BIOS Extension v1.0A Copyright (c) 1984-2001, Award Software, Inc. Detecting IDE " 訊息時, 速度明顯緩慢, 且從電源輸入一直到 BIOS 第二頁顯示完, 時間比一般慢約 8 秒