Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GTC	Robin_Jiang	
1.01		Add New P/N (C1CLR0&C1CM20)	GTC	Robin_Jiang	
1.02		Add New P/N (C1CLGF)	GTC	Robin_Jiang	
1.03		ADD New P/N(C1CM00&C1CM25)	GTC	Robin_Jiang	
1.04		ADD New P/N (C1CM2A)	GTC	Robin_Jiang	
1.05		Modify for new test structure	GTC	Janice_pang	
1.06		Add C1CLG5-A17	GTC	Robin_Jiang	May. 27. 2009
1.07		Add C1CLGP and C1CLGK	GTC	Robin_Jiang	Jun. 15. 2009
1.08		Add new P/N (C1CLGZ-A11)	GTC	Ariel_wang	Apr.2.2010
1.09		Add new PCBA (C1CLGZ-A01)	GTC	Ariel_wang	Apr.7.2010
1.10		Add new P/N (C1CLGU-A01)	GTC	Chongling	Apr.19.2010
1.11		Add new PCBA (C1CLGU-A11)	GTC	Ariel_wang	May.24.2020

4

Authorize by		**Review by**		**Originator By**	**Robin**

1.Objectives

Create test procedure.

2.Scope

Model: EAH4870

PN: C1CLG5   C1CLR0   C1CM20   C1CLGF

          C1CM00   C1CM25   C1CM2A   C1CLG5-A17

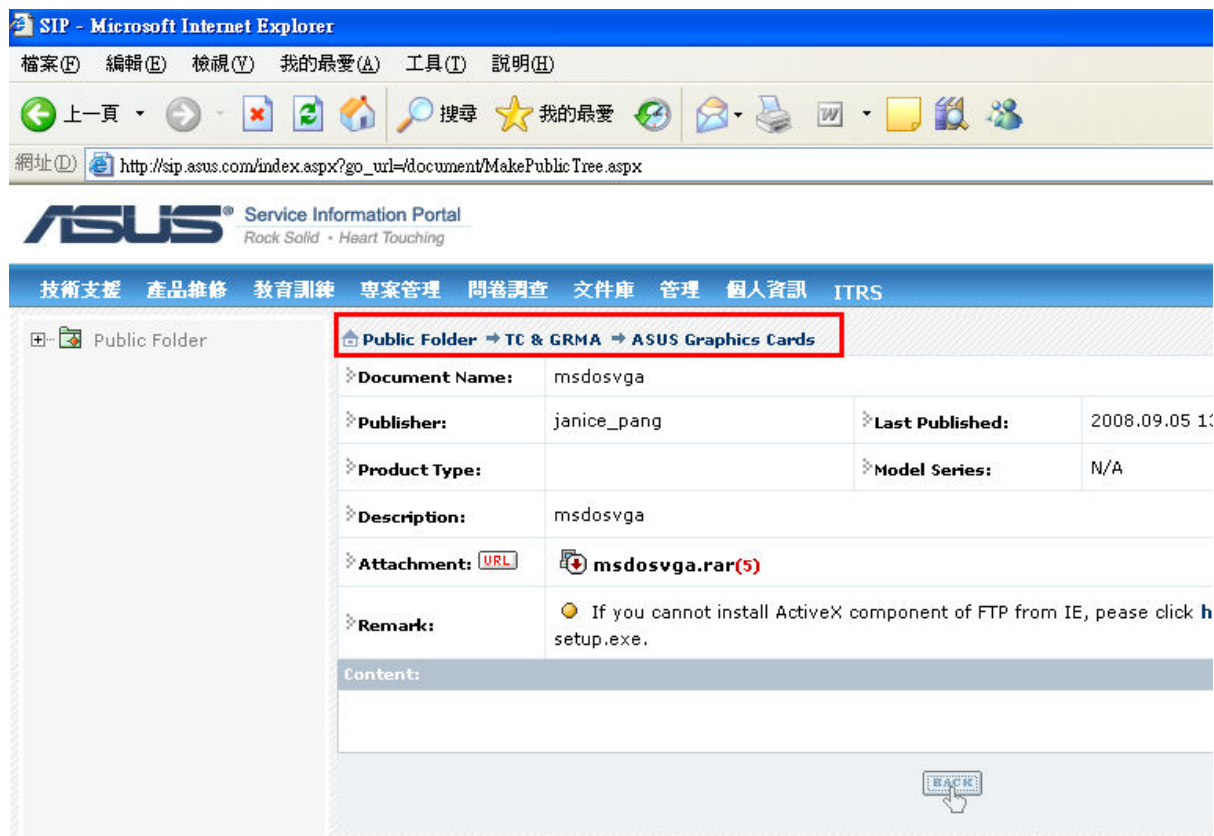   C1CLGP   C1CLGK C1CLGZ(A11&A01) C1CLGU-A01/A11

3.Test Item

3.1 Diagnostic test in DOS

3.2 3DMark06(contain HDMI test)

3.3 Temperature test

3.4 Suspend Test

4.Relevant Document

None.

5.Definition : 1.Please download test program and msdosvga.gho from SIP. Make a test HDD with MS-DOS system. Then copy test program to this HDD to test this Model.

2. If the model name contains P, please test HDCP function.

Ex: EAH***/HTDP/512M/A

3. If you test HDMI already, it's unnecessary to test HDCP. The HDMI contains HDCP function.

6. Operation Procedures:

6.1 Attention

6.1.1 To avoid damaging devices or M/B, please turn off A/C power then unplug VGA card.

6.1.2 While unplugging the card, do it in upright direction to avoid damaging slot & golden finger.

6.1.3 If any problem happens, please inform test supervisor. Base on ATX power specification, +5V standby voltage is existed while AC power is connecting. For safety reason, please turn off main power during break time or idling test.

6.1.4 Some test items should be tested under Windows environment. (Please install windows test environment by yourself).

6.2 Fixture connect

6.2.1 Install Intel P5 CPU & CPU Fan.
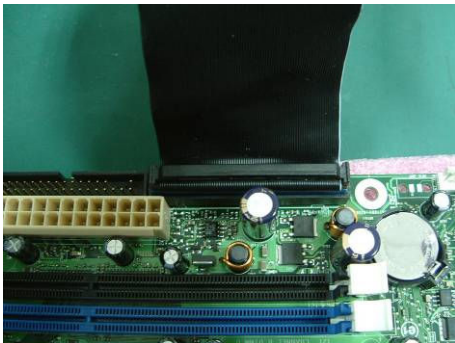6.2.2 Install DDR2 667/800M 1GB Memory to DIMM1~2.
6.2.3 Plug PS/2 Mouse and PS/2 Keyboard into MB.
6.2.4 Plug VGA Card EAH4870 into PCIEX16.
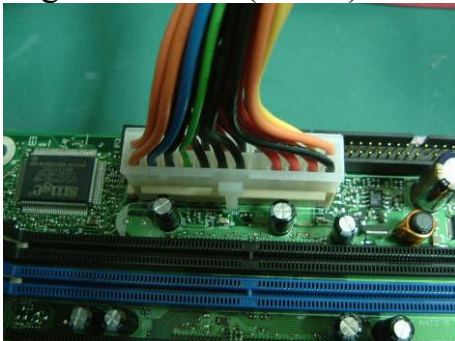6.2.5 Connect power con of VGA card & Power supply via bundled power cable(*.2).

6.2.6 Connect IDE HDD with IDE CON.

6.2.7 Plug 4PIN 12V (600W) power cable into CON12V.
6.2.8 Plug ATX Power(600W) on Power Connector.
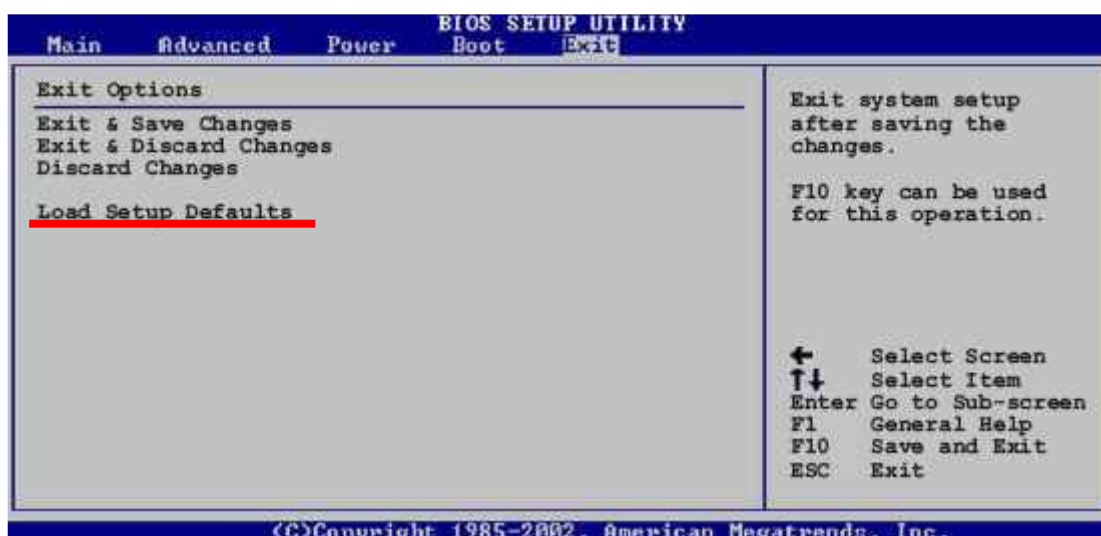
6.3 Certain test.

6.3.1 Diagnostic test in DOS

6.3.1.1 Please connect LCD monitor & card's DVI CON via a DVI cable.

Dual link DVI cable

6.3.1.2 Press Power Switch then turn on power button.

6.3.1.3 Press "Del" to enter CMOS setup menu while boot screen is displaying.
        EXIT -> Load Setup Defaults.

6.3.1.4 System will reboot, select DOS to run test program.
        Path:VBAT\ EAH4870\BATCH\
        Run the test program refer to the prompt.

6.3.1.5 Memory test
        If you want to test memory,please run memfa.bat.
        Path:VBAT\ EAH4870\MEMFA
        Path:VBAT\EAH4870\V770P147(FOR C1CLGU-A01&A11/ C1CLGZ-A01)

6.3.1.6 BIOS flash
        Please use the following command to flash bios and notice the size of character.
        Path:VBAT\ EAH4870\BIOS   Or: VBAT\EAH4870\BIOS1
        Command:atiflash -p -f 0 xxx.rom

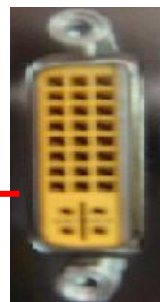6.3.1.7 After finish DOS testing, please enter Windows environment to test 3DMark.

6.3.2 3DMark test(contain HDMI test)

6.3.2.1 Please install 3DMark program by yourself.
6.3.2.2 Please connect VGA card to LCD via HDMI cable.
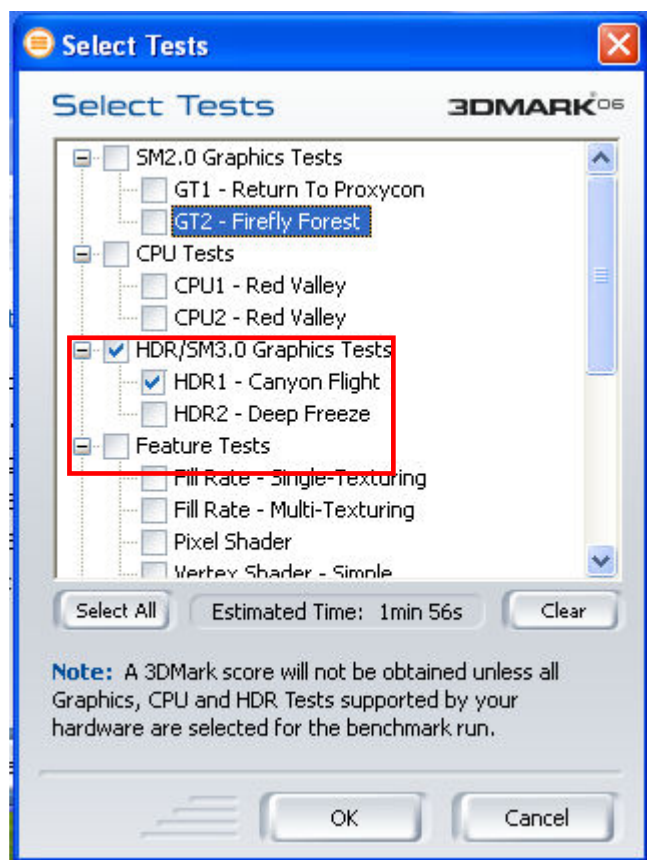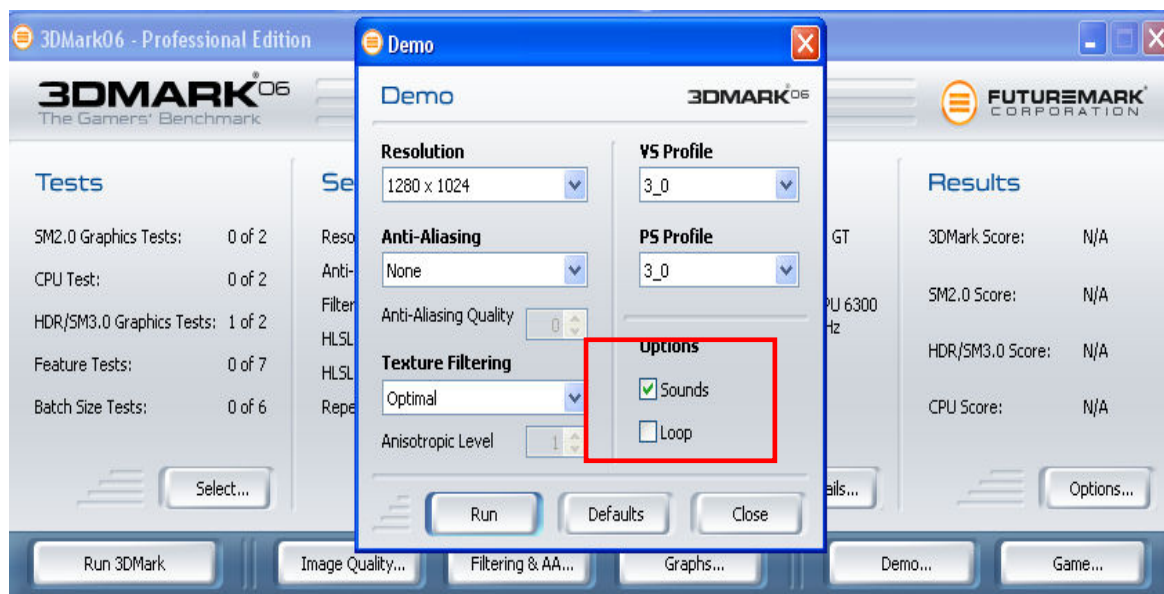

DVI-HDMI cable
YELLOW DVI CON

6.3.2.3 Please install VGA card driver in Windows(You must use individual driver of this card).
6.3.2.4 Please run 3DMark06 base on this card (please test 1 cycle).
6.3.2.5 Press "Select" to enter Select test menu. You can choose "HDR1" for default setting.
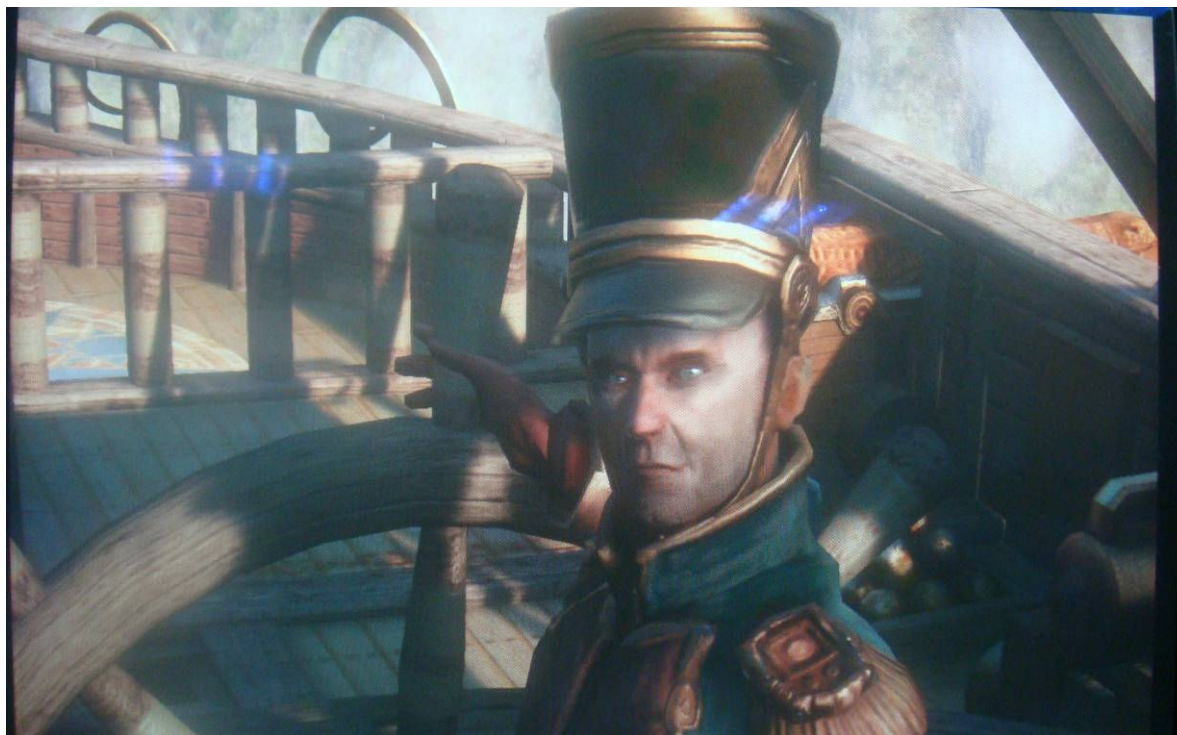
6.3.2.6 Press "Demo" to enter Demo menu. You can choose "Sounds" for default setting(for HDMI function).

6.3.2.7 Please pay attention to check if there is flickering, discolor, crash and so on. If there's no problem, it can be judged OK!
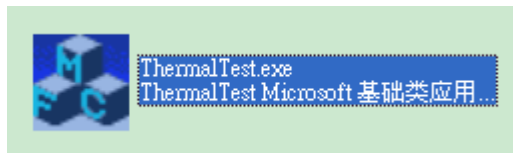
6.3.2.8 Please listen to voice carefully to check whether it outputs sounds. If not, HDMI test fail(for HDMI function).
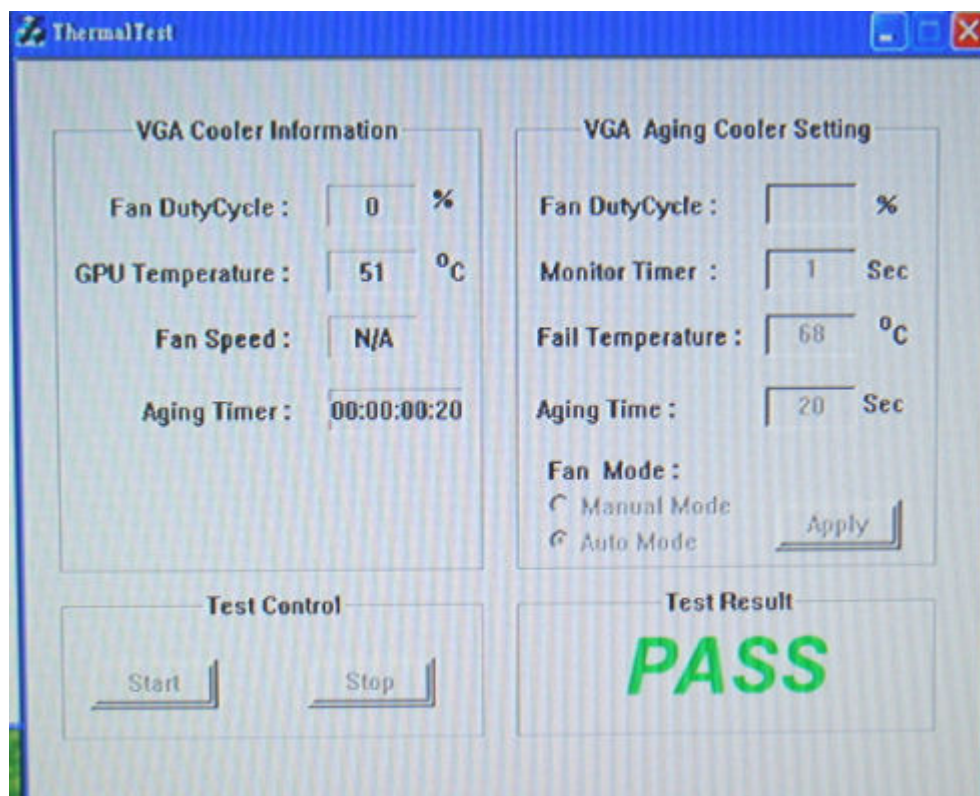
6.4 Temperature test

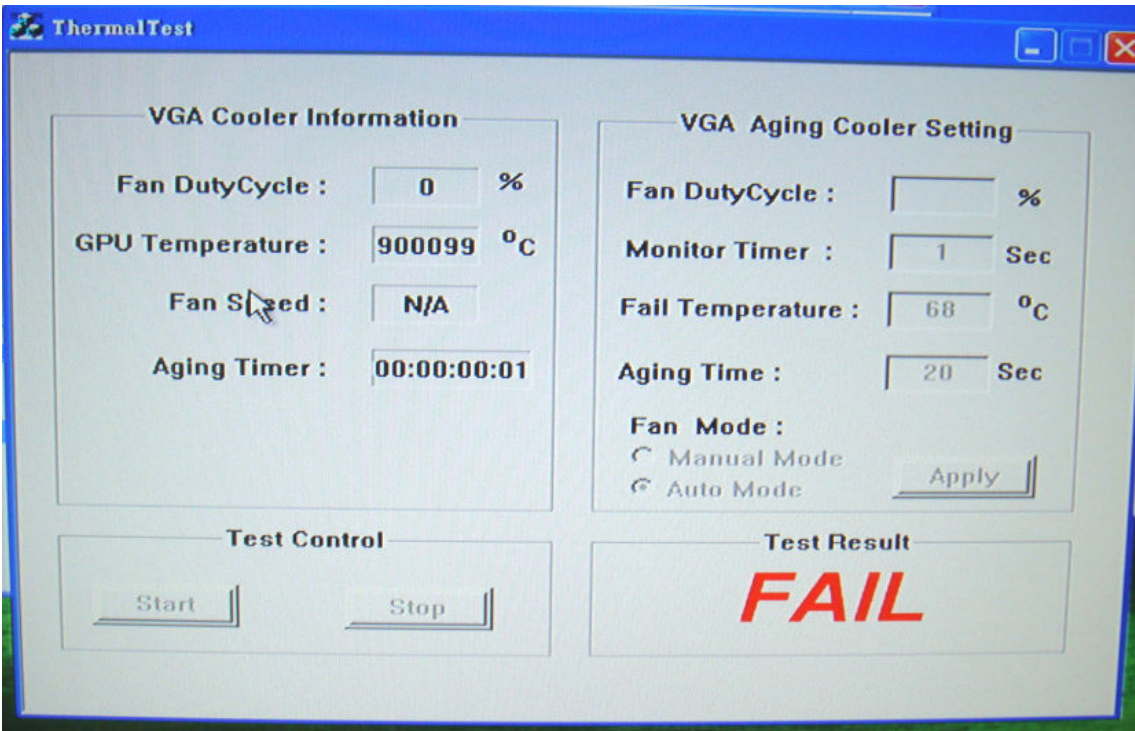6.4.1 Please copy Thermaltool(1.0.05) to Windows by yourself.
6.4.2 Please run ThermalTest.exe.

ThermalTest.exe
ThermalTest Microsoft 基础类应用...

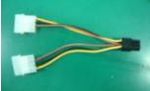6.4.3 If test ok, show pass.

6.4.4 If test fail, show fail.

6.4.5 If test OK, NTF test.

7 Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	**SAMSUNG 2232MW**			**1**	
2	**PS/2 MOUSE**			**1**	
3	**PS/2 KEYBOARD**			**1**	
4	**ATX POWER SUPPLY(600W)**			**1**	
5	**INTEL Celeron E1200**			**1**	
6	**Heat sink + FAN**	**22-240000160**		**1**	
7	**APACER 800MHz 512M or 800MHz 1G**			**512M 2 or 1G 1**	
8	**TEST HDD**			**1**	
9	**40Pins IDE Cable ATA66**		**ASUS**	**1**	
10	**PCIEX16 VGA CARD**			**1**	
11	**D-SUB extend cable (Buying a local D-SUB cable by yourself)**			**1**	
12	**S CABLE(ATI)**	**14G001801801**		**1**	
13	**Dual link DVI cable (Buying a local DVI cable by yourself)**			**1**	
14	**HDMI extend cable (Buying a local HDMI cable by yourself)**			**1**	
15	**TV extend cable (Buying a local TV cable by yourself)**			**1**	

16	DVI-HDMI	04G460002400 /04G460002450		1		
17	Power Cable	14G000602510 /14G000602502		2		
18	LCD "Y" Cable	14-010230000		1		
19	P5E	80-MBB7X0-G0A01		1		