# ASUSTeK COMPUTER INC.

# R7250 Standard Operation Procedure

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Date: SEP.6.2016

Revision:1.07

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Grade:

Rev.	Modified Chapters	Modification Description	Issued Dept.	Issued by	Revised Date
1.00		First Release	GRMA	Jory_yuan	Aug.21.2013
1.01		Add new P/N(YV04S1-A01)	GRMA	Jory_yuan	Oct.23.2013
1.02		Add new PCBA(YV04S0-A13)	GRMA	Jory_yuan	Feb.26.2014
1.03		Add new P/N(YV0640-A02)	GRMA	Jory_yuan	Apr.2.2014
1.04		Add new P/N(YV0641-A02)	GRMA	Jory_yuan	Apr.23.2014
1.05		Add new P/N(YV0920-A02)	GRTD	Xiaoming_Lu	Feb.3.2016
1.06		Add new P/N(YV0921-A01)	GRTD	Xiaoming_Lu	Mar.21.2016
1.07		Add new P/N(YV0920-A15)	GRTD	Maico_Zhang	Sep.6.2016

Authorize	Review	Originator	Maico
by	by	By	

Form No: T2-009-01 Rev.01

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# 1.Objectives

Create test procedure.

# 2.Scope

Model: R7250

PN: YV04S0(A02&A13)YV04S1(A03)YV0640(A02)YV0641(A02)

YV0920(A02) YV0921(A01) YV0920(A15)

#### 3.Test Item

- 3.1 Diagnostic test in 12\_04\_64-bit Linux
- 3.2 3DMark06(contain HDMI test)
- 3.3 Temperature test
- 3.4 Fan Test

### **4.**Relevant Document

None.

**5.Definition**:1. If the model name contains P, please test HDCP function.

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

- 2. If you test HDMI already, it's unnecessary to test HDCP. The HDMI contains HDCP function.
- 3. System Memory: 1GB for a single GPU test station; please add an additional 512MB of system memory for each additional GPU used for the test configuration
- 4. R7250 Test Program in 64-bit Linux system.

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# 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).

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#### **6.2** Fixture connect

- 6.2.1 Install Intel P7 CPU & CPU Fan.
- 6.2.2 Install DDR3 Memory to DIMM1~4. (a minimum memory of 2GB for Linux test)
- 6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.
- 6.2.4 Plug VGA Card R7250 into PCIEX16\_1.
- 6.2.5 If this card has 6 PIN or 8 PIN of Power supply, please connect power con of VGA card & Power supply via bundled power cable.

(6 PIN of Power supply to 6 PIN of VGA card)

(8 PIN of Power supply to 8 PIN of VGA card)

6.2.6 Connect SATA HDD & SATA con via SATA cable



- 6.2.7 Plug 4PIN 12V power(a minimum power of 1200W) cable into CON12V.
- 6.2.8 Plug ATX Power on Power(a minimum power of 1200W) Connector.



## 6.3 Certain test.

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# 6.3.1 Diagnostic test in 64-bit LINUX system

6.3.1.1 Please connect LCD monitor & card's DVI CON via a 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 Run test program in 64-bit linux system.

Path:R7250\yv04s0a0.sh Path:r72501\ yv04s1a0.sh

Path:r72502\yv04s0a1.sh or yv0640a0.sh or yv0641a0.sh

Path:r72504\yv0920a0.sh Path:r72505\yv0921a0.sh Path:r72506\yv0920a1

### 6.3.1.5 Memory test

If you want to test memory, please run ./tserver -boardtest=memfa or ./memtest.sh

Path:R7250\

Path:r72501\

Path:r72502\

Path:r72504\

Path:r72505\

Path:r72506\

#### 6.3.1.6 BIOS Version

If you want to see the version of bios, please run ./atiflash -ai 0 or ./biosinfo.

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Path:R7250\

#### 6.3.1.7 BIOS flash

Please use the following command to flash bios and notice the size of character.

Path:R7250\

Command:./atiflash -p -f 0 xxx.rom

Notice:

If you can not flash bios because of the bios locked, please use ./atiflash –unlockrom 0 to unlock bios. And then, please use ./atiflash –lockrom 0 to lock bios after updating latest bios.

#### 6.3.1.8 FAN Test

Please run ./aft.sh.

Path:r72501/AFT

# 7.Appendix

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	Dell 30 inches (3008WFP) (Buying a local LCD by yourself)	AGOG I ditif	очррпет	1	Pett
2	USB MOUSE			1	
3	PS/2 KEYBOARD			1	
4	ATX POWER SUPPLY(a minimum power of 500W)			1	
5	Intel CPU Intel(R) Core(TM)2 CPU		local	1	E1100
6	Heat sink + FAN	22-240000160		1	
7	DDR3 1333 2G	20-TT2605618	local	4	

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8	TEST HDD			1	
9	SATA HDD Cable	14-000107070	ASUS	1	
10	PCIEX16 VGA CARD			1	
11	Dual link DVI cable (Buying a local DVI cable by yourself)			1	O
12	HDMI extend cable (Buying a local HDMI cable by yourself)			1	
13	P7H55-M/USB3 MB	80- MIBBKA-*		1	
14	Display port cable (Buying a local Display port cable by yourself)			1	
15	Mini Display port to HDMI cable (Buying a local Mini Display port to HDMI cable by yourself)			1	
16	D-SUB extend cable (Buying a local D-SUB cable by yourself)			1	