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| ASUSTeK COMPUTER INC. | GT720 Standard Operation Procedure | Doc. No: | |
| | | Date: JUL.18.2016 Revision:1.16 | |
| | | Page: 10 | Grade: |

| 0Rev . | Modified Chapters | Modification Description | Issued Dept. | Issued by | Revised Date |
|-----------|----------------------|--------------------------|-----------------|-------------|--------------|
| 1.00 | | First release | GRMA | Jory_yuan | May.7.2014 |
| 1.01 | | Add new P/N(YV0720-A01) | GRMA | Jory_yuan | Jul.24.2014 |
| 1.02 | | Add new P/N(YV0730-A01) | GRMA | Jory_yuan | Aug.7.2014 |
| 1.03 | | Add new P/N(YV0721-A01) | GRMA | Jack fan | Aug.27.2014 |
| 1.04 | | Add new P/N(YV0321-A01) | GRMA | Jack fan | Aug.27.2014 |
| 1.05 | | Add new P/N(YV0790-A01) | GRMA | Jack fan | Aug.27.2014 |
| 1.06 | | Add new PCBA(YV0720-Q02) | GTSD | El Li | Nov.21.2014 |
| 1.07 | | Add new P/N(YV0722-A01) | GTSD | Mao Lu | Sep.9.2015 |
| 1.08 | | Add new PCBA(YV0730-A13) | GTSD | Mao Lu | Sep.9.2015 |
| 1.09 | | Add new PCBA(YV0721-A11) | GTSD | Mao Lu | Sep.9.2015 |
| 1.10 | | Add new P/N(YV0723-A01) | GTSD | Mao Lu | Sep.9.2015 |
| 1.11 | | Add new PCBA(YV0720-B01) | GTSD | Mao Lu | Sep.9.2015 |
| 1.12 | | Add new PCBA(YV0720-Q12) | GRTD | Xiaoming_Lu | Sep.24.2015 |
| 1.13 | | Add new PCBA(YV0721-A21) | GRTD | Xiaoming_Lu | Sep.24.2015 |
| 1.14 | | Add new PCBA(YV0720-A23) | GRTD | Xiaoming_Lu | Nov.13.2015 |
| 1.15 | | Add new PCBA(YV0722-A11) | GRTD | Xiaoming_Lu | Feb.5.2016 |
| 1.16 | | Add new P/N(PA06Z0-A01) | GRTD | Maico_Zhang | Jul.18.2016 |

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|-----------------|--|--------------|--|------------------|-------|
| Authorize by | | Review by | | Originator By | Maico |
|-----------------|--|--------------|--|------------------|-------|

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|----------------------|---------------------------------------|--|
| ASUSTeK COMPUTER INC | GT720 Standard Operation Procedure | Doc. No: |
| | | Date: Jul. 18. 2016 Rev. : 1.16 Page: 1 |

1.Objectives

Create test procedure.

2.Scope

Model: GT720

PN: PA06B0(A01) YV0720(A01&Q02) V0730(A01)YV0721(A01)YV0731(A01)
YV0790(A02) YV0722(A01) YV0730(A13) YV0721(A11)

YV0720(B01)YV0720(Q12)YV0721(A21) YV0720(A23) YV0722(A11)PA06Z0(A01)

3.Test Item

3.1 Diagnostic test in Linux system

3.2 3DMark11(contain HDMI&DVI test)

3.3 Temperature 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.

| | | |
|----------------------|---------------------------------------|--|
| ASUSTeK COMPUTER INC | GT720 Standard Operation Procedure | Doc. No: |
| | | Date: Jul. 18. 2016 Rev. : 1.16 Page: 1 |

3. Please use platform (**P7H55-M/USB3**) to test in LINUX or Windows.

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 7 test environment by yourself).

6.2 Fixture connect

6.2.1 Install Intel P7 CPU & CPU Fan.

6.2.2 Install DDR3 Memory to DIMM1~4.

6.2.3 Plug USB Mouse and PS/2 Keyboard into MB.

6.2.4 Plug VGA Card GT720 into PCIEX16.

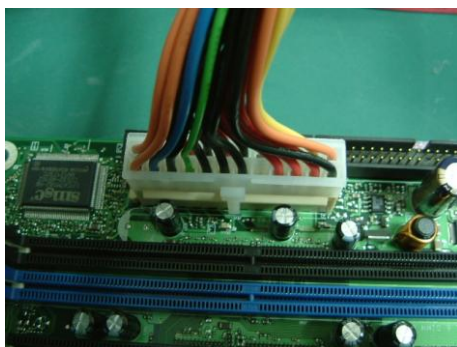
6.2.5 Connect power con of VGA card & Power supply via bundled power cable.

6.2.6 Connect SATA HDD with SATA CON.



6.2.7 Plug 4PIN 12V (1200W) power cable into CON12V.

6.2.8 Plug ATX Power (1200W) on Power Connector.



6.3 Diagnostic test in linux system

6.3.1 Please connect LCD monitor & card's D-SUB CON via a D-SUB cable.



D-SUB cable

6.3.2 Press Power Switch then turn on power button.

6.3.3 Press “Del” to enter CMOS setup menu while boot screen is displaying.

EXIT -> Load Setup Defaults.



6.3.4 System will reboot, select linux to run test program.

- Path:GT720\pa06b0a0.sh
- Path:GT7201\yv0720a0.sh or yv0730a0.sh or yv0720q0.sh or yv0722a0.sh
- Or yv0730a1.sh or yv0720q1.sh or yv0720a2.sh or yv0722a1.sh
- Path:GT7202\yv0720a0.sh
- Path:GT7203\yv0731a0.sh
- Path:GT7204\yv0790a0.sh
- Path:GT7205\yv0721a1.sh or yv0723a0.sh yv0721a2.sh

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|----------------------|---------------------------------------|---------------------|
| ASUSTeK COMPUTER INC | GT720 Standard Operation Procedure | Doc. No: |
| | | Date: Jul.18.2016 |
| | | Rev. : 1.16 Page: 1 |

Path:GT7206\yv0720b0.sh

Path:GT7207\pa06z0a0.sh

Run the test program refer to the prompt.

6.3.5 Memory test

If you want to test memory, please run ./mats.

Path:GT720\

6.3.6 BIOS flash

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

Path:GT720\







Command:./nvflash xxx.rom -4 -5 -6 -A -y






Notice:

If you can not flash bios because of the bios locked, please use ./nvflash.exe /r or ./nvflash -r to unlock bios. And then, please use ./nvflash.exe /w or ./nvflash -w to lock bios after updating latest bios.

6.3.7 If test OK, NTF test.

7 Appendix

| NO# | Equipment Description | ASUS Part# | Supplier | Quantity | Remarks |
|-----|-------------------------------------|--------------|----------|----------|---|
| 1 | SAMSUNG 2232MW | | | 1 |  |
| 2 | USB MOUSE | | | 1 | |
| 3 | PS/2 KEYBOARD | | | 1 |  |
| 4 | ATX POWER SUPPLY (1200W) | | | 1 |  |
| 5 | Intel CPU Intel(R) Core(TM)2 CPU | | local | 1 |  |
| 6 | Heat sink + FAN | 22-240000160 | local | 1 |  |
| 7 | DDR3 1333 2G | 20-TT2605618 | local | 4 |  |

| | | | | | | |
|----|---|-------------------------------|------|---|---|--|
| 8 | SATA HDD | | | 1 |  | |
| 9 | SATA HDD Cable | 14-000107070 | | 1 |  | |
| 10 | PCIEX16 VGA CARD | | | 1 | | |
| 11 | D-SUB extend cable (Buying a local D-SUB cable by yourself) | | | 1 |  | |
| 13 | HDMI extend cable (Buying a local HDMI cable by yourself) | | | 1 |  | |
| 15 | DVI-HDMI | 04G460002400 /04G460002450 | | 1 |  | |
| 17 | P7H55-M/USB3 | 80-MIBBKA-G0* | ASUS | 1 | | |