

| Subject : To test whether EMX-H61 is able to support 4 displays. | | |
|---|---|--|
| | | |
| Model Name: EMX-H61 | Rev. | |
| Category: ☐General ■H/W ☐S/W ☐Others, _ | 寫小分類 | |
| Purpose: | | |
| To verify whether EMX-H61 with a VGA Card is able to support 4 displays. | | |
| f we want to use EMX-H61 for 4 displays, we have to teps. /GA card for test: ASUS ENGT220(VGA,HDMI,DVI po | add a VGA card, and then the BIOS has to be set for 2 | |

1.BIOS->Chipset->North Bridge->Initate ->IGD

The purpose of this setting is making the onboard graphic as primary display when booting.

Otherwise, if setting it as "PEG", the additional VGA card will display firstly, and then the onboard graphic will be disable.

2.BIOS->Chipset->North Bridge->IGD Multi-monitor->Enabled.

The purpose of this setting is enable the multi-display.

There are the test result for the combinations of displays as below.

onboard HDMI+VGA and ASUS HDMI+VGA => OK onboard DVI+VGA and ASUS DVI+VGA => OK onboard HDMI+VGA and ASUS DVI+VGA => OK onboard DVI+VGA and ASUS HDMI+VGA => OK onboard HDMI+DVI and ASUS HDMI+DVI => OK

We can see the last combination, which is OK to dual digital displays(HDMI+DVI).

Due to the graphic chip offers two pipe, we can choose "Analog + Digital" or "Digital + Digital".

However, the graphic chip has only two pipes, so it is unable to support three even four displays.

That means, onboard graphic and additional graphic(VGA card) is able to support 2+2=4 displays, but isn't able to support 5 or 6 displays.

Avalue Technology Inc.

7F, 228, Lian-Cheng Road, Chung Ho City, Taipei, Taiwan R.O.C.

www.avalue.com.tw sales@avalue.com.tw Fax:+886-2-82262777

Avalue Europe sales.europe@avalue.com.tw Tel: +45-7025-0310 Fax: +45-4975-5026

Avalue USA sales@avalue-usa.com Fax: +1-732-578-0250

BCM Advanced Research BCMSales@bcmcom.com Tel: +1-949-470-1888 Fax: +1-949-470-0971

Avalue China sales.china@avalue.com.cn Tel: +86-21-5426-3399 Fax: +86-21-6495-0370



Below are the preliminary test results for reference:

BIOS->Chipset->North Bridge->Initate ->IGD

| Aptio Setup Uti Chipset | lity – Copyright (C) 2011 America |
|----------------------------|-----------------------------------|
| Memory Information | |
| Total Memory | 2048 MB (DDR3 1333) |
| Memory Slot1 | 0 MB (DDR3 1333) |
| Memory Slot2 | 2048 MB (DDR3 1333) |
| Low MMIO Align | [1024M] |
| DMI Gen2 | (Enabled) |
| VT-d | [Disabled] |
| Initate Graphic Adapter | |
| IGD Memory | [96M] |
| Render Standby | [Enabled] |
| IGD Multi-Monitor | [Enabled] |
| DVMT Mode Select | [DVMT Mode] |
| DVMT/FIXED Memory | [256HB] |

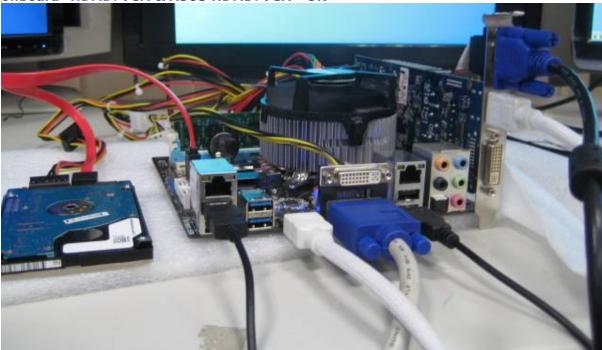
BIOS->Chipset->North Bridge->IGD Multi-monitor->Enabled

| Aptio Setup Util Chipset | ity – Copyright (C) 2011 Americ |
|------------------------------------|---------------------------------|
| Memory Information | |
| Total Hemory | 2048 MB (DDR3 1333) |
| Memory Slot1 | 0 MB (DDR3 1333) |
| Memory Slot2 | 2048 MB (DDR3 1333) |
| Low MMIO Align | [1024H] |
| DMI Gen2 | (Enabled) |
| VT-d | [Disabled] |
| Initate Graphic Adapter | [PEG/IGD] |
| IGD Hemory | [96H] |
| Render Standby | [Enabled] |
| | |
| sunt Hada Palact | [DVMT Hode] |
| DVMT Hode Select DVMT/FIXED Memory | [256MB] |

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onboard HDMI+VGA & ASUS HDMI+VGA OK

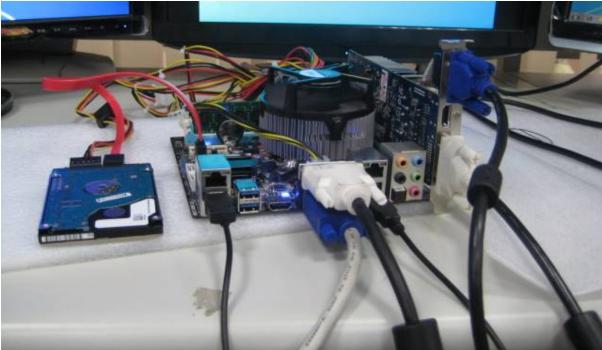




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onboard DVI+VGA & ASUS DVI+VGA OK

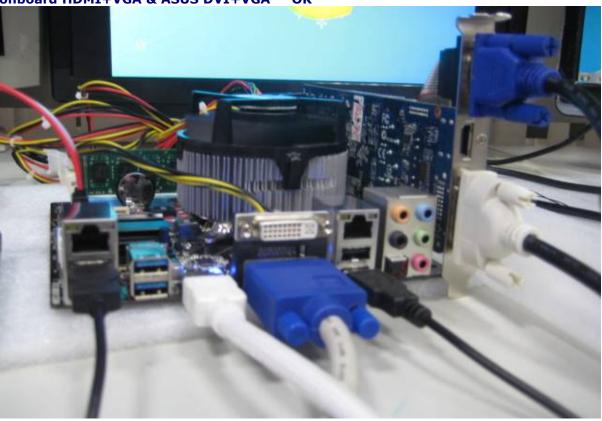




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onboard HDMI+VGA & ASUS DVI+VGA OK



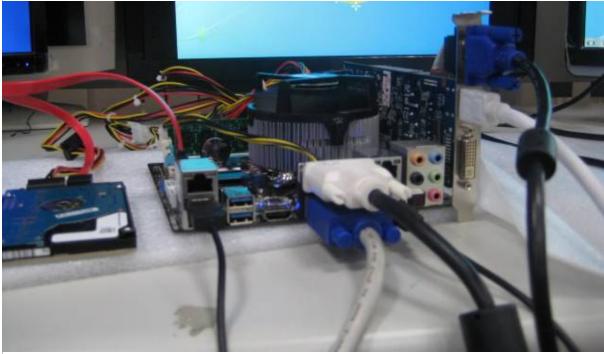


Avalue Technology Inc.

www.avalue.com.tw sales@avalue.com.tw Tel:+886-2-82262345 Fax:+886-2-82262777 Avalue Europe sales.europe@avalue.com.tw Tel: +45-7025-0310 Fax: +45-4975-5026 Avalue USA sales@avalue-usa.com Tel: +1-732-578-0200 Fax: +1-732-578-0250 BCM Advanced Research BCMSales@bcmcom.com Tel: +1-949-470-1888 Fax: +1-949-470-0971 Avalue China sales.china@avalue.com.cn Tel: +86-21-5426-3399 Fax: +86-21-6495-0370



onboard DVI+VGA & ASUS HDMI+VGA OK

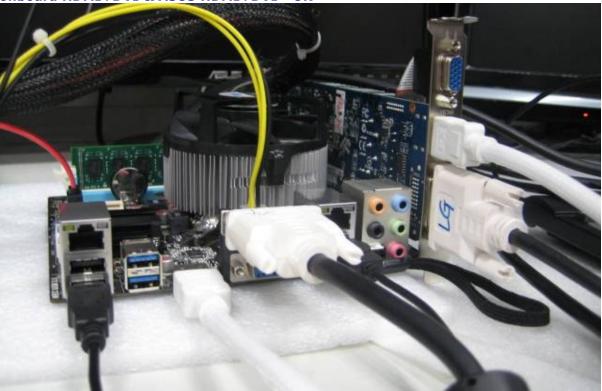


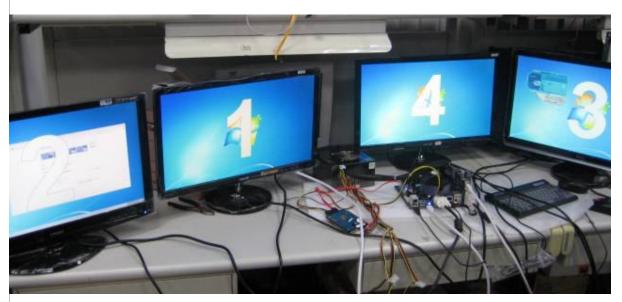


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onboard HDMI+DVI & ASUS HDMI+DVI OK





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Avalue Technology Inc.

www.avalue.com.tw sales@avalue.com.tw Tel:+886-2-82262345 Fax:+886-2-82262777 Avalue Europe sales.europe@avalue.com.tw Tel: +45-7025-0310 Fax: +45-4975-5026 Avalue USA sales@avalue-usa.com Tel: +1-732-578-0200 Fax: +1-732-578-0250 BCM Advanced Research BCMSales@bcmcom.com Tel: +1-949-470-1888 Fax: +1-949-470-0971

Avalue China sales.china@avalue.com.cn Tel: +86-21-5426-3399 Fax: +86-21-6495-0370