NVR-B75

Network Appliance

3.5" Hot-Swappable SATA HDD Tray x 5

3.5" HDD bracket x 1

Gigabit Ethernet x 2

USB3.0 x 4, USB2.0 x 2

VGA x 1, HDMI x 3

NVR-B75 Manual 1st Ed. August 2013

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Packing List

Before you begin installing your card, please make sure that the following materials have been shipped:

- 1 CD-ROM for 4-port SATA Card driver
- 1 DVD-ROM for Manual (in PDF Format) and Drivers
- 1 NVR-B75

If any of these items should be missing or damaged, please contact your distributor or sales representative immediately.

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Below Table for China RoHS Requirements 产品中有毒有害物质或元素名称及含量

AAEON Boxer/ Industrial System

	有毒有害物质或元素							
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚		
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)		
印刷电路板)	(0)		
及其电子组件	×	*	0	0	0	0	0	
外部信号	×		\ \	0	0	0	C	0
连接器及线材))))		
外壳	×	0	0	0	0	0		
中央处理器	×	0	0	0	С	0		
与内存	×))))	
硬盘	×	0	0	0	0	0		
电源	×	0	0	0	0	0		

- O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。
- X:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。

备注:

- 一、此产品所标示之环保使用期限,系指在一般正常使用状况下。
- 二、上述部件物质中央处理器、内存、硬盘、电源为选购品。

Chapter

General Information

1.1 Introduction

NVR-B75 adopts the Intel[®] CoreTM i3/ i5 Processor and equips with Intel® B75 chipset. Moreover, the system memory features 4GB DDR3-1333 240pin DIMM Memory up to 16GB. It deploys two LAN ports that consist of 10/100/1000Base-TX Ethernet RJ-45 NVR-B75 features desktop form factor for network appliance applications.

This NVR-B75 supports up to five 3.5" hot-swappable HDD trays and one 3.5" internal System HDD bracket. Moreover, the flexible expansion interfaces feature one PCI-E[x16]. In addition, this model supports two USB3.0 ports on the front; two USB2.0 ports and two USB3.0 ports on the rear. Furthermore, the NVR-B75 can support dual displays with one VGA and three HDMI ports.

1.2 Features

- Intel[®] LGA Socket 1155 with Intel Core™ i3-3220 Processor, Max TDP: 55W
- Intel® B75 Chipset
- 4GB DDR3-1333 240pin DIMM Memory, support up to 16GB
- 10/100/1000Base-TX Ethernet x 2
- Hot swappable SATA HDD tray x5, Internal 3.5" SATA HDD x 1
- Front: USB3.0 x 2, Rear: USB2.0 x 2 + USB3.0 x2
- Display: HDMI x 3, VGA x 1
- Audio Line-out, Line-in, Mic-in
- Windows® 7 Embedded Standard (optional)

1.3 Specifications

System

• CPU	Intel® LGA Socket 1155 with Intel
	Core™ i3-3220 Processor, Max
	TDP: 55W
Chipset	Intel B75
System Memory	4GB DDR3-1333 240pin DIMM
	Memory, support up to 16GB
LCD/CRT Controller	Integrated in Processor, shared
	memory up to 256MB
Ethernet	10/100/1000Base-TX, RJ-45 x 2
Rear I/O Port	USB 2.0 x 2 USB 3.0 x 2 Audio Line-out, Line-in, Mic-in x 1 VGA x 1 HDMI x 3 PS/2 x 1(Keyboard + Mouse)
Storage	3.5" SATA System Hard Disk x 5 +
	1 x 3.5" system HDD bracket
Expansion Slot	PCIe [x16] x 1 (SATA expansion
	card)

Mechanical

Front Door	Front door cover with lock for HDD security
Dimension	10.83" x 8.07" x 11.81" (275mm x

Network Video Reco	rder
--------------------	------

N V R - B 7 5

	205mm x 300 mm)
Gross Weight	22 lb (10 Kg)
Net Weight	19.8 lb (9 Kg)

Environmental

Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Humidity	10%~80% @40°C;

Power Supply

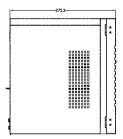
DC Output	400W SFX type
AC Input Voltage Range	100~240VAC, 50~60HZ, 6-3A

Chapter

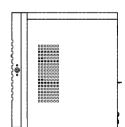
Hardware Installation

2.1 Mechanical Drawing







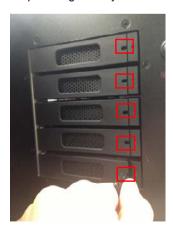


2.2 Installing the Front 3.5" Hard Disk Drive

Step 1: Insert the Key and turn left.



Step 2: Plug the key into the hole and the door will open.





Step 3: Unfasten the 2 screws of each side and remove the black cover.



Step 4: Fasten the 2 screws on each side of the HDD.



Step 5: Put the HDD into the bay.



Step 6: Close the door. Then, Insert the key and tern right to lock the door





2.3 Installing the 3.5" HDD to the internal HDD bracket

Step 1: Release the screws.





Step 2: Shift the HDD upper bracket from right to left and remove it.



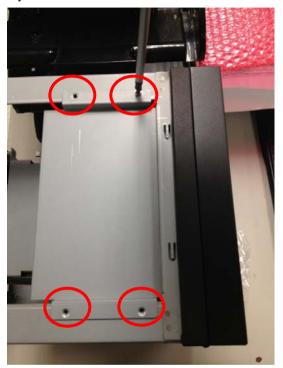
Step 3: Put the hard disk into the drive bay and lock it with four screws



Step 4: Put back the HDD bracket and push it to the right until it's locked in position.



Step 5: Firmly lock the HDD bracket with 4 screws.



Chapter

Driver Installation

The NVR-B75 comes with an AutoRun DVD-ROM that contains all drivers and utilities that can help you to install the driver automatically.

Insert the driver DVD, the driver DVD-title will auto start and show the installation guide. If not, please follow the sequence below to install the drivers.

Follow the sequence below to install the drivers:

- Step 1 Install Chipset Driver
- Step 2 Install VGA Driver
- Step 3 Install LAN Driver
- Step 4 Install Audio Driver
- Step 5 Install ME Driver
- Step 6 Install USB3.0 Driver
- Step 7 Install AHCI Driver
- Step 8 Install TPM Driver

Please read instructions below for further detailed installations.

Installation 3.1

Insert the NVR-B75 DVD-ROM into the DVD -ROM drive and install the drivers from Step 1 to Step 8 in order.

Step 1 – Install Chipset Driver

- Click on the **Chipset** folder and double click on the 1 Setup.exe file
- 2. Follow the instructions that the window shows
- 3. The system will help you install the driver automatically

Step 2 – Install VGA Driver

- 1. Click on the **VGA** folder and select the OS your system is
- 2. Double click on the **Setup.exe** file located in each OS folder
- Follow the instructions that the window shows 3.
- 4. The system will help you install the driver automatically

Step 3 – Install LAN Driver

For Intel LAN Chip

- Click on the **LAN** folder and select the **Intel** folder 1.
- 2. Double click on the Autorun.exe file
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically

For Realtek LAN Chip

- Click on the LAN folder and select the Realtek folder.
- 2. Select the OS folder your system is and double click on the **setup.exe** file located in each OS folder
- Follow the instructions that the window shows
- 4. The system will help you install the driver automatically

Step 4 - Install Audio Driver

- Click on the Audio folder and double click on the SETUP.exe file
- 2. Follow the instructions that the window shows
- 3. The system will help you install the driver automatically

Step 5 – Install ME Driver

- Click on the *ME* folder and double click on the *Setup.exe* file
- 2. Follow the instructions that the window shows
- 3. The system will help you install the driver automatically

Step 6 – Install USB3.0 Driver

- Click on the USB3.0 folder and double click on the setup.exe file
- 2. Follow the instructions that the window shows
- 3. The system will help you install the driver automatically

Step 7 – Install AHCI Driver

- Click on the AHCI folder and select the folder of AP
- 2. Double click on the iata cd.exe file
- 3. Follow the instructions that the window shows

The system will help you install the driver automatically

Step 8 - Install TPM Driver

- Click on the TPM folder and double click on the Setup.exe file
- Follow the instructions that the window shows 2.
- 3. The system will help you install the driver automatically

Chapter

I/O Information

4.1 I/O Address Map

```
■ Input/output (IO)

  [00000000 - 0000001F] Direct memory access controller
  .... [00000000 - 00000CF7] PCI bus
  [00000022 - 0000003F] Motherboard resources
  ■ [00000024 - 00000025] Programmable interrupt controller
  [00000028 - 00000029] Programmable interrupt controller
  [0000002C - 0000002D] Programmable interrupt controller
  ■ [00000030 - 00000031] Programmable interrupt controller
  [00000034 - 00000035] Programmable interrupt controller
  [00000038 - 00000039] Programmable interrupt controller
  [00000044 - 0000005F] Motherboard resources
  ...... [0000004E - 0000004F] Motherboard resources
  ----1 [00000050 - 00000053] System timer
  [00000060 - 00000060] Standard PS/2 Keyboard
  [00000061 - 00000061] Motherboard resources
  [00000062 - 00000063] Motherboard resources
  [00000063 - 00000063] Motherboard resources
  [00000064 - 00000064] Standard PS/2 Keyboard
  [00000065 - 00000065] Motherboard resources
  [00000065 - 0000006F] Motherboard resources
  [00000070 - 00000070] Motherboard resources
  [00000072 - 0000007F] Motherboard resources
  [00000080 - 00000080] Motherboard resources
```

[00000081 - 00000091] Direct memory access controller

```
↓■ [00000081 - 00000091] Direct memory access controller

[00000084 - 00000086] Motherboard resources
[00000088 - 00000088] Motherboard resources
[0000008C - 0000008E] Motherboard resources
□1 [00000090 - 0000009F] Motherboard resources
[00000092 - 00000092] Motherboard resources
□1 [00000093 - 0000009F] Direct memory access controller
--1 [000000A0 - 000000A1] Programmable interrupt controller
.....1 [000000A2 - 000000BF] Motherboard resources
[000000A4 - 000000A5] Programmable interrupt controller
--1 [000000AC - 000000AD] Programmable interrupt controller
[000000B2 - 000000B3] Motherboard resources
[000000B4 - 000000B5] Programmable interrupt controller
[000000BC - 000000BD] Programmable interrupt controller
[000000C0 - 000000DF] Direct memory access controller
[000000E0 - 000000EF] Motherboard resources
 [000000F0 - 000000FF] Numeric data processor
(00000170 - 00000177) ATA Channel 1
 [000001F0 - 000001F7] ATA Channel 0
 [000002F8 - 000002FF] Communications Port (COM2)
 [00000376 - 00000376] ATA Channel 1
 [000003B0 - 000003BB] Intel(R) HD Graphics
 [000003C0 - 000003DF] Intel(R) HD Graphics
 [000003F6 - 000003F6] ATA Channel 0
 [000003F8 - 000003FF] Communications Port (COM1)
[00000400 - 00000453] Motherboard resources
[00000454 - 00000457] Motherboard resources
[00000458 - 0000047F] Motherboard resources
 [000004D0 - 000004D1] Motherboard resources
```

```
■ [000004D0 - 000004D1] Motherboard resources
[000004D0 - 000004D1] Programmable interrupt controller
[00000500 - 0000057F] Motherboard resources
[00000680 - 0000069F] Motherboard resources
..... [00000A00 - 00000A1F] Motherboard resources
[00000A20 - 00000A2F] Motherboard resources
■ [00000A30 - 00000A3F] Motherboard resources
■ [0000164E - 0000164F] Motherboard resources
[0000D000 - 0000D0FF] Realtek PCIe GBE Family Controller #2
[0000D000 - 0000DFFF] Intel(R) 7 Series/C216 Chipset Family PCI Express Root Port 2 - 1E12
[0000E000 - 0000E0FF] Realtek PCIe GBE Family Controller
№ [0000E000 - 0000EFFF] Intel(R) 7 Series/C216 Chipset Family PCI Express Root Port 1 - 1E10
[0000F000 - 0000F03F] Intel(R) HD Graphics
[0000F060 - 0000F06F] Intel(R) 7 Series/C216 Chipset Family 2 port Serial ATA Storage Controller - 1E08
[0000F070 - 0000F07F] Intel(R) 7 Series/C216 Chipset Family 2 port Serial ATA Storage Controller - 1E08
[0000F0B0 - 0000F0B7] Intel(R) 7 Series/C216 Chipset Family 2 port Serial ATA Storage Controller - 1E08
..... [0000FFFF - 0000FFFF] Motherboard resources
[0000FFFF - 0000FFFF] Motherboard resources
```

4.2 1st MB Memory Address Map

```
■ Memory

    [000A0000 - 000BFFFF] Intel(R) HD Graphics
    -1 [000A0000 - 000BFFFF] PCI bus
   ....1 [000D0000 - 000D3FFF] PCI bus
    .... [000D4000 - 000D7FFF] PCI bus

√ISS [000D8000 - 000DBFFF] PCI bus

   .....1 [000E0000 - 000E3FFF] PCI bus
    15 [000E4000 - 000E7FFF] PCI bus
   140004000 - 40004FFF1 System board
    [DFA00000 - DFA00FFF] Motherboard resources
    -₁■ [DFA00000 - FEAFFFFF] PCI bus
    [E0000000 - EFFFFFFF Intel(R) HD Graphics
    [F0000000 - F0003FFF] Realtek PCIe GBE Family Controller #2
    [F0000000 - F00FFFFF] Intel(R) 7 Series/C216 Chipset Family PCI Express Root Port 2 - 1E12
    [F0004000 - F0004FFF] Realtek PCIe GBE Family Controller #2
    [F0100000 - F0103FFF] Realtek PCIe GBE Family Controller
    [F0100000 - F01FFFFF] Intel(R) 7 Series/C216 Chipset Family PCI Express Root Port 1 - 1E10
    F0104000 - F0104FFF1 Realtek PCIe GBE Family Controller
    [F7800000 - F7BFFFFF] Intel(R) HD Graphics
    F7C00000 - F7C0FFFF] Intel(R) USB 3.0 eXtensible Host Controller
    □ [F7C10000 - F7C13FFF] High Definition Audio Controller
    → [F7C15000 - F7C150FF] Intel(R) 7 Series/C216 Chipset Family SMBus Host Controller - 1E22
    F7C17000 - F7C173FF1 Intel(R) 7 Series/C216 Chipset Family USB Enhanced Host Controller - 1E2D
    [F7C1A000 - F7C1A00F] Intel(R) Management Engine Interface
    [F8000000 - FBFFFFFF] Motherboard resources
    IFED00000 - FED003FF1 High precision event timer
    [FED10000 - FED17FFF] Motherboard resources
    [FED18000 - FED18FFF] Motherboard resources
    [FED19000 - FED19FFF] Motherboard resources
    [FED1C000 - FED1FFFF] Motherboard resources
    [FED1C000 - FED1FFFF] Motherboard resources
    [FED20000 - FED3FFFF] Motherboard resources
    ... IFED40000 - FED44FFF1 System board

→ [FED45000 - FED8FFFF] Motherboard resources

√III [FED90000 - FED93FFF] Motherboard resources

    [FEE00000 - FEEFFFFF] Motherboard resources
    .... [FF000000 - FFFFFFFF] Intel(R) 82802 Firmware Hub Device
    [FF000000 - FFFFFFFF] Motherboard resources
```

4.3 IRQ Mapping Chart

△ ■ Interrupt request (IRQ)	
[ISA] 0x00000000 (00)	System timer
	Standard PS/2 Keyboard
(ISA) 0x00000003 (03)	Communications Port (COM2)
(ISA) 0x00000004 (04)	Communications Port (COM1)
	System CMOS/real time clock
	Microsoft PS/2 Mouse
	Numeric data processor
(ISA) 0x0000000E (14)	ATA Channel 0
(ISA) 0x0000000F (15)	ATA Channel 1
	Microsoft ACPI-Compliant System
1 (ISA) 0x00000055 (85)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
1 (ISA) 0x00000057 (87)	Microsoft ACPI-Compliant System
1. (ISA) 0x00000058 (88)	Microsoft ACPI-Compliant System
1 (ISA) 0x00000059 (89)	Microsoft ACPI-Compliant System
1 (ISA) 0x0000005A (90)	Microsoft ACPI-Compliant System
■ (ISA) 0x0000005B (91)	Microsoft ACPI-Compliant System
j■ (ISA) 0x0000005C (92)	Microsoft ACPI-Compliant System
1 (ISA) 0x0000005D (93)	Microsoft ACPI-Compliant System
1. (ISA) 0x0000005E (94)	Microsoft ACPI-Compliant System
1. (ISA) 0x0000005F (95)	Microsoft ACPI-Compliant System
1. (ISA) 0x00000060 (96)	Microsoft ACPI-Compliant System
1 (ISA) 0x00000061 (97)	Microsoft ACPI-Compliant System
1. (ISA) 0x00000062 (98)	Microsoft ACPI-Compliant System
1. (ISA) 0x00000063 (99)	Microsoft ACPI-Compliant System
¶■ (ISA) 0x00000064 (100)	Microsoft ACPI-Compliant System
[ISA] 0x00000065 (101)	Microsoft ACPI-Compliant System
■ (ISA) 0x00000066 (102)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System

(ISA) 0x00000067 (103)	Microsoft ACPI-Compliant System
(ISA) 0x00000007 (103)	Microsoft ACPI-Compliant System
(ISA) 0x00000000 (104)	Microsoft ACPI-Compliant System
(ISA) 0x00000006A (106)	Microsoft ACPI-Compliant System
(ISA) 0x0000006B (107)	Microsoft ACPI-Compliant System
(ISA) 0x0000000B (107)	Microsoft ACPI-Compliant System
(ISA) 0x0000000C (109)	Microsoft ACPI-Compliant System
(ISA) 0x0000000E (110)	Microsoft ACPI-Compliant System
(ISA) 0x0000006F (111)	
(ISA) 0x0000000F (111)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
1 (ISA) 0x00000071 (113)	Microsoft ACPI-Compliant System
(ISA) 0x00000072 (114)	Microsoft ACPI-Compliant System
(ISA) 0x00000073 (115)	Microsoft ACPI-Compliant System
(ISA) 0x00000074 (116)	Microsoft ACPI-Compliant System
(ISA) 0x00000075 (117)	Microsoft ACPI-Compliant System
(ISA) 0x00000076 (118)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
1 (ISA) 0x00000079 (121)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
1 [™] (ISA) 0x0000007C (124)	Microsoft ACPI-Compliant System
∮■ (ISA) 0x0000007D (125)	Microsoft ACPI-Compliant System
₁♥ (ISA) 0x0000007E (126)	Microsoft ACPI-Compliant System
₁♥ (ISA) 0x0000007F (127)	Microsoft ACPI-Compliant System
₁	Microsoft ACPI-Compliant System
₁♥️ (ISA) 0x00000081 (129)	Microsoft ACPI-Compliant System
₁■ (ISA) 0x00000082 (130)	Microsoft ACPI-Compliant System
[■ (ISA) 0x00000083 (131)	Microsoft ACPI-Compliant System
₁ (ISA) 0x00000084 (132)	Microsoft ACPI-Compliant System
∳ (ISA) 0x00000085 (133)	Microsoft ACPI-Compliant System
■ (ISA) 0x00000086 (134)	Microsoft ACPI-Compliant System
(ISA) 0x00000087 (135)	Microsoft ACPI-Compliant System

	1. 0.1001 C
	Microsoft ACPI-Compliant System
1 (ISA) 0x00000088 (136)	Microsoft ACPI-Compliant System
[• (ISA) 0x00000089 (137)	Microsoft ACPI-Compliant System
1. (ISA) 0x0000008A (138)	Microsoft ACPI-Compliant System
₁■ (ISA) 0x0000008B (139)	Microsoft ACPI-Compliant System
₁♥ (ISA) 0x0000008C (140)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
₁■ (ISA) 0x0000008E (142)	Microsoft ACPI-Compliant System
₁■ (ISA) 0x0000008F (143)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
₁■ (ISA) 0x0000009A (154)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
(ISA) 0x0000009D (157)	Microsoft ACPI-Compliant System
₁■ (ISA) 0x0000009E (158)	Microsoft ACPI-Compliant System
(ISA) 0x0000009F (159)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
[ISA] 0x000000A1 (161)	Microsoft ACPI-Compliant System
	Microsoft ACPI-Compliant System
1 (ISA) 0x000000A3 (163)	Microsoft ACPI-Compliant System
1 (ISA) 0x000000A4 (164)	Microsoft ACPI-Compliant System
1 (ISA) 0x000000A5 (165)	Microsoft ACPI-Compliant System
1 (ISA) 0x000000A6 (166)	Microsoft ACPI-Compliant System
1 (ISA) 0x000000A7 (167)	Microsoft ACPI-Compliant System

■ (ISA) 0x000000A8 (168) Microsoft ACPI-Compliant System (ISA) 0x000000A9 (169) Microsoft ACPI-Compliant System --1 (ISA) 0x000000AA (170) Microsoft ACPI-Compliant System (ISA) 0x000000AB (171) Microsoft ACPI-Compliant System —↓■ (ISA) 0x000000AC (172) Microsoft ACPI-Compliant System (ISA) 0x000000AD (173) Microsoft ACPI-Compliant System ISA) 0x000000AE (174) Microsoft ACPI-Compliant System (ISA) 0x000000AF (175) Microsoft ACPI-Compliant System (ISA) 0x000000B0 (176) Microsoft ACPI-Compliant System (ISA) 0x000000B1 (177) Microsoft ACPI-Compliant System (ISA) 0x000000B2 (178) Microsoft ACPI-Compliant System --₁

(ISA) 0x000000B3 (179) Microsoft ACPI-Compliant System (ISA) 0x000000B4 (180) Microsoft ACPI-Compliant System --- (ISA) 0x000000B5 (181) Microsoft ACPI-Compliant System (ISA) 0x000000B6 (182) Microsoft ACPI-Compliant System --- (ISA) 0x000000B7 (183) Microsoft ACPI-Compliant System (ISA) 0x000000B8 (184) Microsoft ACPI-Compliant System (ISA) 0x000000BA (186) Microsoft ACPI-Compliant System (ISA) 0x000000BC (188) Microsoft ACPI-Compliant System √ISA) 0x000000BD (189) Microsoft ACPI-Compliant System -- ISA) 0x000000BE (190) Microsoft ACPI-Compliant System PCI) 0x00000005 (05) Intel(R) 7 Series/C216 Chipset Family SMBus Host Controller - 1E22 ... 🖥 (PCI) 0x00000010 (16) Intel(R) 7 Series/C216 Chipset Family USB Enhanced Host Controller - 1E2D (PCI) 0x00000010 (16) Intel(R) Management Engine Interface🌉 (PCI) 0x00000010 (16) Xeon(R) processor E3-1200 v2/3rd Gen Core processor PCI Express Root Port - 0151 (PCI) 0x00000011 (17) Intel(R) 7 Series/C216 Chipset Family PCI Express Root Port 2 - 1E12 PCI) 0x00000016 (22) High Definition Audio Controller (PCI) 0x00000017 (23) Intel(R) 7 Series/C216 Chipset Family USB Enhanced Host Controller - 1E26 (PCI) 0x00000017 (23) Intel(R) 7 Series/C216 Chipset Family USB Enhanced Host Controller - 1E26 (PCI) 0xFFFFFFB (-5) Realtek PCIe GBE Family Controller #2 PCI) 0xFFFFFFC (-4) Realtek PCIe GBE Family Controller (PCI) 0xFFFFFFFD (-3) Intel(R) USB 3.0 eXtensible Host Controller (PCI) 0xFFFFFFFE (-2) Intel(R) HD Graphics

4.4 DMA Channel Assignments



4 Direct memory access controller