

1. PCI Device's Class Codes

PCI Config-Space_Rx09[] : 开始的3个字节

Class	Description
0x00	Devices built before class codes (i.e. pre PCI 2.0)
0x01	Mass storage controller
0x02	Network controller
0x03	Display controller
0x04	Multimedia device
0x05	Memory Controller
0x06	Bridge Device
0x07	Simple communications controllers
0x08	Base system peripherals
0x09	Inupt devices
0x0A	Docking Stations
0x0B	Processorts
0x0C	Serial bus controllers
0x0D-0xFE	Reserved
0xFF	Misc

2. 分布介绍各个类别

Class Code 0: Pre 2.0

Sub-Class	Prog. I/F	Description
0x00	0x00	All devices

0x01	0x01	VGA device
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Class Code 1: Mass Storage Controllers

Sub-Class	Prog. I/F	Description	
0x00	0x00	SCSI Controller	
0x01	0xXX	IDE controller. The Prog I/F is defined as follows:	
		bits	Desc
		0	Operating mode (primary)
		1	Programmable indicator (primary)
		2	Operating mode (secondary)
		3	Programmable indicator (secondary)
		6..4	Reserved (zero)
		7	Master IDE device
0x02	0x00	Floppy disk controller	
0x03	0x00	IPI controller	
0x04	0x00	RAID controller	
0x80	0x00	Other mass storage controller	

Class Code 2: Network Controllers

Sub-Class	Prog. I/F	Descrip
0x00	0x00	Etherne
0x01	0x00	Token r
0x02	0x00	FDDI c

0x03	0x00	ATM co
0x80	0x00	Other n

Class Code 3: Display Controllers

Sub-Class	Prog. I/F	Description
0x00	0x00	VGA compatable controller. Has mapping for 0xA0000..0xBFFFF an
	0x01	8514 compatable
0x01	0x00	XGA controller
0x80	0x80	Other display controller

Class Code 4: Multimedia Devices

Sub-Class	Prog. I/F	Desc
0x00	0x00	Videc
0x01	0x00	Audic
0x80	0x00	Other

Class Code 5: Memory Controllers

Sub-Class	Prog. I/F	Desc
0x00	0x00	RAM
0x01	0x00	Flash
0x80	0x00	Other

Class Code 6: Bridge Devices

Sub-Class	Prog. I/F	Descript
0x00	0x00	Host/PC
0x01	0x00	PCI/ISA
0x02	0x00	PCI/EISA
0x03	0x00	PCI/Micro
0x04	0x00	PCI/PCI
0x05	0x00	PCI/PCMCIA
0x06	0x00	PCI/NuE
0x07	0x00	PCI/Car
0x80	0x00	Other br

Class Code 7: Simple Communications Controllers

Sub-Class	Prog. I/F	Description
0x00	0x00	Generic XT compatible serial
	0x01	16450 compatible serial cont
	0x02	16550 compatible serial cont
0x01	0x00	Parallel port
	0x01	Bi-directional parallel port
	0x02	ECP 1.X parallel port
0x80	0x00	Other communications device

Class Code 8: Base System Peripherals

Sub-Class	Prog. I/F	Description
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0x00	0x00	Generic 8259 programmable interrupt contr
	0x01	ISA PIC
	0x02	EISA PIC
0x01	0x00	Generic 8237 DMA controller
	0x01	ISA DMA controller
	0x02	EISA DMA controller
0x02	0x00	Generic 8254 timer
	0x01	ISA system timer
	0x02	EISA system timer
0x03	0x00	Generic RTC controller
	0x01	ISA RTC controller
0x80	0x00	Other system peripheral

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Class Code 9: Input Devices

Sub-Class	Prog. I/F
0x00	0x00
0x01	0x00
0x02	0x00
0x80	0x00

Class Code A: Docking Stations

Sub-Class	Prog. I/F	Description
0x00	0x00	Generic docki

0x80	0x00	Other type of
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Class Code B: Processors

Sub-Class	Prog. I/F
0x00	0x00
0x01	0x00
0x02	0x00
0x10	0x00
0x20	0x00
0x40	0x00

Class Code C: Serial Bus Controllers

Sub-Class	Prog. I/F	Description
0x00	0x00	Firewire (IEEE 1394)
0x01	0x00	ACCESS bus
0x02	0x00	SSA (Serial Storage /
0x03	0x00	USB (Universal Seria