

PCI EXPRESS X16

by tony nameless

PIN		SIDE B (FRONT)	SIDE A (BACK)	PIN	
#	name	Description	Description	name	#
1	+12v	+12 volt power	Hot plug presence detect	PRST#1	1
2	+12v	+12 volt power	+12 volt power	+12v	2
3	+12v	+12 volt power	+12 volt power	+12v	3
4	GND	Ground	Ground	GND	4
5	SMBCLK	SMBus clock	TCK	JTAG2	5
6	SMDAT	SMBus data	TDI	JTAG3	6
7	GND	Ground	TDO	JTAG4	7
8	+3.3v	+3.3 volt power	TMS	JTAG5	8
9	JTAG1	+TRST#	+3.3 volt power	+3.3v	9
10	3.3Vaux	3.3v volt power	+3.3 volt power	+3.3v	10
11	WAKE#	Link Reactivation	Power Good	PWRGD	11

KEY

12	RSVD	Reserved	Ground	GND	12
13	GND	Ground	Reference Clock	REFCLK+	13
14	HSOp(0)	Transmitter Lane 0, Differential pair	Reference Clock	REFCLK-	14
15	HSOn(0)	Differential pair	Ground	GND	15
16	GND	Ground	Receiver Lane 0, Differential pair	HSIp(0)	16
17	PRST#2	Hotplug detect	HSIn(0)	HSIn(0)	17
18	GND	Ground	Ground	GND	18

X1

19	HSOp(1)	Transmitter Lane 1, Differential pair	Reserved	RSVD	19
20	HSOn(1)	Differential pair	Ground	GND	20
21	GND	Ground	Receiver Lane 1, Differential pair	HSIp(1)	21
22	GND	Ground	HSIn(1)	HSIn(1)	22
23	HSOp(2)	Transmitter Lane 2, Differential pair	Ground	GND	23
24	HSOn(2)	Differential pair	Ground	GND	24
25	GND	Ground	Receiver Lane 2, Differential pair	HSIp(2)	25
26	GND	Ground	HSIn(2)	HSIn(2)	26
27	HSOp(3)	Transmitter Lane 3, Differential pair	Ground	GND	27
28	HSOn(3)	Differential pair	Ground	GND	28
29	GND	Ground	Receiver Lane 3, Differential pair	HSIp(3)	29
30	RSVD	Reserved	HSIn(3)	HSIn(3)	30
31	PRST#2	Hot plug detect	Ground	GND	31
32	GND	Ground	Reserved	RSVD	32

X4

33	HSOp(4)	Transmitter Lane 4, Differential pair	Reserved	RSVD	33
34	HSOn(4)	Differential pair	Ground	GND	34
35	GND	Ground	Receiver Lane 4, Differential pair	HSIp(4)	35
36	GND	Ground	HSIn(4)	HSIn(4)	36
37	HSOp(5)	Transmitter Lane 5, Differential pair	Ground	GND	37
38	HSOn(5)	Differential pair	Ground	GND	38
39	GND	Ground	Receiver Lane 5, Differential pair	HSIp(5)	39
40	GND	Ground	HSIn(5)	HSIn(5)	40
41	HSOp(6)	Transmitter Lane 6, Differential pair	Ground	GND	41
42	HSOn(6)	Differential pair	Ground	GND	42
43	GND	Ground	Receiver Lane 6, Differential pair	HSIp(6)	43
44	GND	Ground	HSIn(6)	HSIn(6)	44
45	HSOp(7)	Transmitter Lane 7, Differential pair	Ground	GND	45
46	HSOn(7)	Differential pair	Ground	GND	46
47	GND	Ground	Receiver Lane 7, Differential pair	HSIp(7)	47
48	PRST#2	Hot plug detect	HSIn(7)	HSIn(7)	48
49	GND	Ground	Ground	GND	49

X8

50	HSOp(8)	Transmitter Lane 8, Differential pair	Reserved	RSVD	50
51	HSOn(8)	Differential pair	Ground	GND	51
52	GND	Ground	Receiver Lane 8, Differential pair	HSIp(8)	52
53	GND	Ground	HSIn(8)	HSIn(8)	53
54	HSOp(9)	Transmitter Lane 9, Differential pair	Ground	GND	54
55	HSOn(9)	Differential pair	Ground	GND	55
56	GND	Ground	Receiver Lane 9, Differential pair	HSIp(9)	56
57	GND	Ground	HSIn(9)	HSIn(9)	57
58	HSOp(10)	Transmitter Lane 10, Differential pair	Ground	GND	58
59	HSOn(10)	Differential pair	Ground	GND	59
60	GND	Ground	Receiver Lane 10, Differential pair	HSIp(10)	60
61	GND	Ground	HSIn(10)	HSIn(10)	61
62	HSOp(11)	Transmitter Lane 11, Differential pair	Ground	GND	62
63	HSOn(11)	Differential pair	Ground	GND	63
64	GND	Ground	Receiver Lane 11, Differential pair	HSIp(11)	64
65	GND	Ground	HSIn(11)	HSIn(11)	65
66	HSOp(12)	Transmitter Lane 12, Differential pair	Ground	GND	66
67	HSOn(12)	Differential pair	Ground	GND	67
68	GND	Ground	Receiver Lane 12, Differential pair	HSIp(12)	68
69	GND	Ground	HSIn(12)	HSIn(12)	69
70	HSOp(13)	Transmitter Lane 13, Differential pair	Ground	GND	70
71	HSOn(13)	Differential pair	Ground	GND	71
72	GND	Ground	Receiver Lane 13, Differential pair	HSIp(13)	72
73	GND	Ground	HSIn(13)	HSIn(13)	73
74	HSOp(14)	Transmitter Lane 14, Differential pair	Ground	GND	74
75	HSOn(14)	Differential pair	Ground	GND	75
76	GND	Ground	Receiver Lane 14, Differential pair	HSIp(14)	76
77	GND	Ground	HSIn(14)	HSIn(14)	77
78	HSOp(15)	Transmitter Lane 15, Differential pair	Ground	GND	78
79	HSOn(15)	Differential pair	Ground	GND	79
80	GND	Ground	Receiver Lane 15, Differential pair	HSIp(15)	80
81	PRST#2	Hot plug present detect	HSIn(15)	HSIn(15)	81
82	RSVD#2	Hot Plug Detect	Ground	GND	82

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