

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

PCI-Express 8x Connector Pin-Out



Pin	Side B Connector		Side A Connector	
#	Name	Description	Name	Description
1	+12v	+12 volt power	PRSNT#1	Hot plug presence detect
2	+12v	+12 volt power	+12v	+12 volt power
3	+12v	+12 volt power	+12v	+12 volt power
4	GND	Ground	GND	Ground
5	SMCLK	SMBus clock	JTAG2	TCK
6	SMDAT	SMBus data	JTAG3	TDI
7	GND	Ground	JTAG4	TDO
8	+3.3v	+3.3 volt power	JTAG5	TMS
9	JTAG1	+TRST#	+3.3v	+3.3 volt power

10	3.3Vaux	3.3v volt power	+3.3v	+3.3 volt power
11	WAKE#	Link Reactivation	PERST#	PCI-Express Reset signal
Mechanical Keycard				
12	RSVD	Reserved	GND	Ground
13	GND	Ground	REFCLK+	Reference Clock Differential pair
14	HSOp(0)	Transmitter Lane 0, Differential pair	REFCLK-	
15	HSOn(0)		GND	Ground
16	GND	Ground	HSIp(0)	Receiver Lane 0, Differential pair
17	PRSNT#2	Hotplug detect	HSIn(0)	
18	GND	Ground	GND	Ground
19	HSOp(1)	Transmitter Lane 1, Differential pair	RSVD	Reserved
20	HSOn(1)		GND	Ground
21	GND	Ground	HSIp(1)	Receiver Lane 1, Differential pair
22	GND	Ground	HSIn(1)	
23	HSOp(2)	Transmitter Lane 2, Differential pair	GND	Ground
24	HSOn(2)		GND	Ground
25	GND	Ground	HSIp(2)	Receiver Lane 2, Differential pair
26	GND	Ground	HSIn(2)	
27	HSOp(3)	Transmitter Lane 3, Differential pair	GND	Ground
28	HSOn(3)		GND	Ground
29	GND	Ground	HSIp(3)	Receiver Lane 3, Differential pair
30	RSVD	Reserved	HSIn(3)	
31	PRSNT#2	Hot plug detect	GND	Ground
32	GND	Ground	RSVD	Reserved
33	HSOp(4)	Transmitter Lane 4, Differential pair	RSVD	Reserved

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

PCI-Express 16x Connector Pin-Out



Pin	Side B Connector		Side A Connector	
#	Name	Description	Name	Description
1	+12v	+12 volt power	PRSNT#1	Hot plug presence detect
2	+12v	+12 volt power	+12v	+12 volt power
3	+12v	+12 volt power	+12v	+12 volt power
4	GND	Ground	GND	Ground
5	SMCLK	SMBus clock	JTAG2	TCK