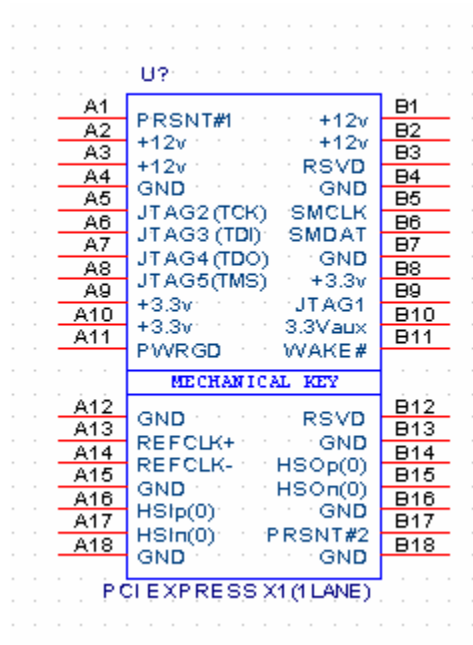


## PCI Express Connector Library

The PCI Express Connector Library contains 4 different schematic symbols shown below:

### 1. PCI Express Single Lane Connector



## 2. PCI Express 4 Lanes Connector

U?

A1	PRSNT#1	+12v	B1
A2	+12v	+12v	B2
A3	+12v	RSVD	B3
A4	GND	GND	B4
A5	JTAG2 (TCK)	SMCLK	B5
A6	JTAG3 (TDI)	SMDAT	B6
A7	JTAG4 (TDO)	GND	B7
A8	JTAG5 (TMS)	+3.3v	B8
A9	+3.3v	JTAG1	B9
A10	+3.3v	3.3Vaux	B10
A11	PWRGD	WAKE#	B11
<b>MECHANICAL KEY</b>			
A12	GND	RSVD	B12
A13	REFCLK+	GND	B13
A14	REFCLK-	HSOp(0)	B14
A15	GND	HSOn(0)	B15
A16	HSIp(0)	GND	B16
A17	HSIn(0)	PRSNT#2	B17
A18	GND	GND	B18
A19	RSVD	HSOp(1)	B19
A20	GND	HSOn(1)	B20
A21	HSIp(1)	GND	B21
A22	HSIn(1)	GND	B22
A23	GND	HSOp(2)	B23
A24	GND	HSOn(2)	B24
A25	HSIp(2)	GND	B25
A26	HSIn(2)	GND	B26
A27	GND	HSOp(3)	B27
A28	GND	HSOn(3)	B28
A29	HSIp(3)	GND	B29
A30	HSIn(3)	RSVD	B30
A31	GND	PRSNT#2	B31
A32	RSVD	GND	B32

PCI EXPRESS X4 (4 LANES)

### 3. PCI Express 8 Lanes Connector

U?		
A1		B1
A2	PRSENT#1	+12v
A3	+12v	+12v
A4	+12v	RSVD
A5	GND	GND
A6	JTAG2 (TCK)	SMCLK
A7	JTAG3 (TDI)	SMDAT
A8	JTAG4 (TDO)	GND
A9	JTAG5 (TMS)	+3.3v
A10	+3.3v	JTAG1
A11	+3.3v	3.3Vaux
A11	PWRGD	WAKE#
<b>MECHANICAL KEY</b>		
A12	GND	RSVD
A13	REFCLK+	GND
A14	REFCLK-	HSOp(0)
A15	GND	HSOn(0)
A16	HSIp(0)	GND
A17	HSIn(0)	PRSENT#2
A18	GND	GND
A19	RSVD	HSOp(1)
A20	GND	HSOn(1)
A21	HSIp(1)	GND
A22	HSIn(1)	GND
A23	GND	HSOp(2)
A24	GND	HSOn(2)
A25	HSIp(2)	GND
A26	HSIn(2)	GND
A27	GND	HSOp(3)
A28	GND	HSOn(3)
A29	HSIp(3)	GND
A30	HSIn(3)	RSVD
A31	GND	PRSENT#2
A32	RSVD	GND
A33	RSVD	HSOp(4)
A34	GND	HSOn(4)
A35	HSIp(4)	GND
A36	HSIn(4)	GND
A37	GND	HSOp(5)
A38	GND	HSOn(5)
A39	HSIp(5)	GND
A40	HSIn(5)	GND
A41	GND	HSOp(6)
A42	GND	HSOn(6)
A43	HSIp(6)	GND
A44	HSIn(6)	GND
A45	GND	HSOp(7)
A46	GND	HSOn(7)
A47	HSIp(7)	GND
A48	HSIn(7)	PRSENT#2
A49	GND	GND
PCI EXPRESS X8 (8 LANES)		

### 4. PCI Express 16 Lanes Connector

JP?			
A1	PRSNT#1	+12v	B1
A2	+12v	+12v	B2
A3	+12v	RSVD	B3
A4	GND	GND	B4
A5	JTAG2 (TCK)	SMCLK	B5
A6	JTAG3 (TDI)	SMDAT	B6
A7	JTAG4 (TDO)	GND	B7
A8	JTAG5 (TMS)	+3.3v	B8
A9	+3.3v	JTAG1	B9
A10	+3.3v	3.3Vaux	B10
A11	PWRGD	WAKE#	B11
MECHANICAL KEY			
A12	GND	RSVD	B12
A13	REFCLK+	GND	B13
A14	REFCLK-	HSOp(0)	B14
A15	GND	HSOn(0)	B15
A16	HSIp(0)	GND	B16
A17	HSIn(0)	PRSNT#2	B17
A18	GND	GND	B18
A19	RSVD	HSOp(1)	B19
A20	GND	HSOn(1)	B20
A21	HSIp(1)	GND	B21
A22	HSIn(1)	GND	B22
A23	GND	HSOp(2)	B23
A24	GND	HSOn(2)	B24
A25	HSIp(2)	GND	B25
A26	HSIn(2)	GND	B26
A27	GND	HSOp(3)	B27
A28	GND	HSOn(3)	B28
A29	HSIp(3)	GND	B29
A30	HSIn(3)	RSVD	B30
A31	GND	PRSNT#2	B31
A32	RSVD	GND	B32
A33	RSVD	HSOp(4)	B33
A34	GND	HSOn(4)	B34
A35	HSIp(4)	GND	B35
A36	HSIn(4)	GND	B36
A37	GND	HSOp(5)	B37
A38	GND	HSOn(5)	B38
A39	HSIp(5)	GND	B39
A40	HSIn(5)	GND	B40
A41	GND	HSOp(6)	B41
A42	GND	HSOn(6)	B42
A43	HSIp(6)	GND	B43
A44	HSIn(6)	GND	B44
A45	GND	HSOp(7)	B45
A46	GND	HSOn(7)	B46
A47	HSIp(7)	GND	B47
A48	HSIn(7)	PRSNT#2	B48
A49	GND	GND	B49
A50	RSVD	HSOp(8)	B50
A51	GND	HSOn(8)	B51
A52	HSIp(8)	GND	B52
A53	HSIn(8)	GND	B53
A54	GND	HSOp(9)	B54
A55	GND	HSOn(9)	B55
A56	HSIp(9)	GND	B56
A57	HSIn(9)	GND	B57
A58	GND	HSOp(10)	B58
A59	GND	HSOn(10)	B59
A60	HSIp(10)	GND	B60
A61	HSIn(10)	GND	B61
A62	GND	HSOp(11)	B62
A63	GND	HSOn(11)	B63
A64	HSIp(11)	GND	B64
A65	HSIn(11)	GND	B65
A66	GND	HSOp(12)	B66
A67	GND	HSOn(12)	B67
A68	HSIp(12)	GND	B68
A69	HSIn(12)	GND	B69
A70	GND	HSOp(13)	B70
A71	GND	HSOn(13)	B71
A72	HSIp(13)	GND	B72
A73	HSIn(13)	GND	B73
A74	GND	HSOp(14)	B74
A75	GND	HSOn(14)	B75
A76	HSIp(14)	GND	B76
A77	HSIn(14)	GND	B77
A78	GND	HSOp(15)	B78
A79	GND	HSOn(15)	B79
A80	HSIp(15)	GND	B80
A81	HSIn(15)	PRSNT#2	B81
A82	GND	RSVD#2	B82

PCI EXPRESS X16 (16 LANES)

Document Revision History

	Revision	Date	By	Comments
1	1.00	Dec 21, 07	LD	Initial Release