

**11-Slot PICMG 1.3 PCIe to PCIe Switch (PLX PEX8724) Backplane,
6 PCIe Gen 3.0 x4 w/ x16 slot, 4 PCI, RoHS**

SPXE-11S-R10

Quick Installation Guide

Version 1.0

Apr 17, 2018

Package List

SPXE-11S-R10 package includes the following items:

- 1 x SPXE-11S-R10 module
- 1x QIG



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Specifications

- System Type: PICMG 1.3 Backplane
- PICMG 1.3: 1 ea (full size)
- PCI-E slot:
 - 2 x PCIE x4 from CPU
 - 1 x PCIE x4 from PCH
 - Slot type: X4 signal with X16 slot
 - 3 x PCIE x4 from CPU via PLX8724
- PCI slot:
 - 4 x PCI from CPU card
- Chassis: Mounting hole compatible with PCI-14S

Ordering Information

- **SPXE-11S-R10:**
11-Slot PICMG 1.3 PCIe to PCIe Switch (PLX PEX8724) Backplane, 6 PCIe Gen 3.0 x4 w/ x16 slot, 4 PCI, RoHS
- **RACK-305G:**
4U 14-slot full-size rack-mount chassis
- **RACK-360G:**
4U 14-slot full-size rack-mount chassis
- **RACK-3000G:**
4U 14-slot full-size rack-mount chassis

Jumpers setting and connectors

LABEL	FUNCTION
ATXPWR1	Backplane to mainboard ATX Power Control Connector
PWRBTN	External Power On Button Connector
RESET	External Reset Button Connector
PWRGD	External Power Good Connector
PWRGD1	External System Management Connector
Fan1 Fan2 Fan3 Fan4	Fan Connectors
JSPI1	Flash EC ROM
I2C1	I2C Connector
USB1 USB2	Internal Pin-header USB2.0 Connectors
PCIE1 PCIE2 PCIE3 PCIE4 PCIE5 PCIE6	PCIE X4 Connector
PCI1 PCI2 PCI3 PCI4	PCI Connector

ATXPWR1: ATX Power Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PSOEN#
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PWRGD	18	NC
9	+5VSB	19	+5V
10	+12V	20	+5V

PWRBTN: Power on Button			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	PWRBT#

RESET: Reset Button			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	SHB_RST#

PWRGD: Power Good Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	PWRGD

PWRGD1: System Management BUS Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	SMDAT	2	SMCLK

FAN1, FAN2, FAN3, FAN4: Fan Connectors			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	+12V
3	NC		

JSPI1: Flash BIOS SPI ROM			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+V3.3M_SPI_CON	2	SPI_CS
3	SPI_SO_SW	4	SPI_CLK_SW
5	SPI_SI_SW	6	GND

I2C1 : I2C Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	PCH_GP38 (I2C_DAT)
3	PCH_GP39 (I2C_CLK)	4	+5V

USB1 ~ 2: Internal USB Connectors			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	VCC	2	GND
3	USB_DATA-	4	USB_DATA+
5	USB_DATA+	6	USB_DATA-
7	GND	8	VCC

PCIE1 ~ PCIE6: PCIE Connectors			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
B1	VCC12	A1	N/C
B2	VCC12	A2	VCC12
B3	VCC12	A3	VCC12
B4	GND	A4	GND
B5	SMBCLK	A5	N/C
B6	SMDATA	A6	N/C
B7	GND	A7	N/C
B8	VCC3	A8	N/C

B9	N/C	A9	VCC3
B10	3VDU	A10	VCC3
B11	I_WAKE-	A11	PCIRST2-
B12	N/C	A12	GND
B13	GND	A13	EX_PCIECLK0+
B14	EX_TXP0	A14	EX_PCIECLK0-
B15	EX_TXN0	A15	GND
B16	GND	A16	EX_RXP0
B17	SDVO_CLK0	A17	EX_RXN0
B18	GND	A18	GND
B19	EX_TXP1	A19	N/C
B20	EX_TXN1	A20	GND
B21	GND	A21	EX_RXP1
B22	GND	A22	EX_RXN1
B23	EX_TXP2	A23	GND
B24	EX_TXN2	A24	GND
B25	GND	A25	EX_RXP2
B26	GND	A26	EX_RXN2
B27	EX_TXP3	A27	GND
B28	EX_TXN3	A28	GND
B29	GND	A29	EX_RXP3
B30	N/C	A30	EX_RXN3
B31	SDVO_DAT0	A31	GND
B32	GND	A32	N/C
B33	N/C	A33	N/C
B34	N/C	A34	GND
B35	GND	A35	N/C
B36	GND	A36	N/C
B37	N/C	A37	GND
B38	N/C	A38	GND
B39	GND	A39	N/C
B40	GND	A40	N/C
B41	N/C	A41	GND

B42	N/C	A42	GND
B43	GND	A43	N/C
B44	GND	A44	N/C
B45	N/C	A45	GND
B46	N/C	A46	GND
B47	GND	A47	N/C
B48	N/C	A48	N/C
B49	GND	A49	GND
B50	N/C	A50	N/C
B51	N/C	A51	GND
B52	GND	A52	N/C
B53	GND	A53	N/C
B54	N/C	A54	GND
B55	N/C	A55	GND
B56	GND	A56	N/C
B57	GND	A57	N/C
B58	N/C	A58	GND
B59	N/C	A59	GND
B60	GND	A60	N/C
B61	GND	A61	N/C
B62	N/C	A62	GND
B63	N/C	A63	GND
B64	GND	A64	N/C
B65	GND	A65	N/C
B66	N/C	A66	GND
B67	N/C	A67	GND
B68	GND	A68	N/C
B69	GND	A69	N/C
B70	N/C	A70	GND
B71	N/C	A71	GND
B72	GND	A72	N/C
B73	GND	A73	N/C
B74	N/C	A74	GND

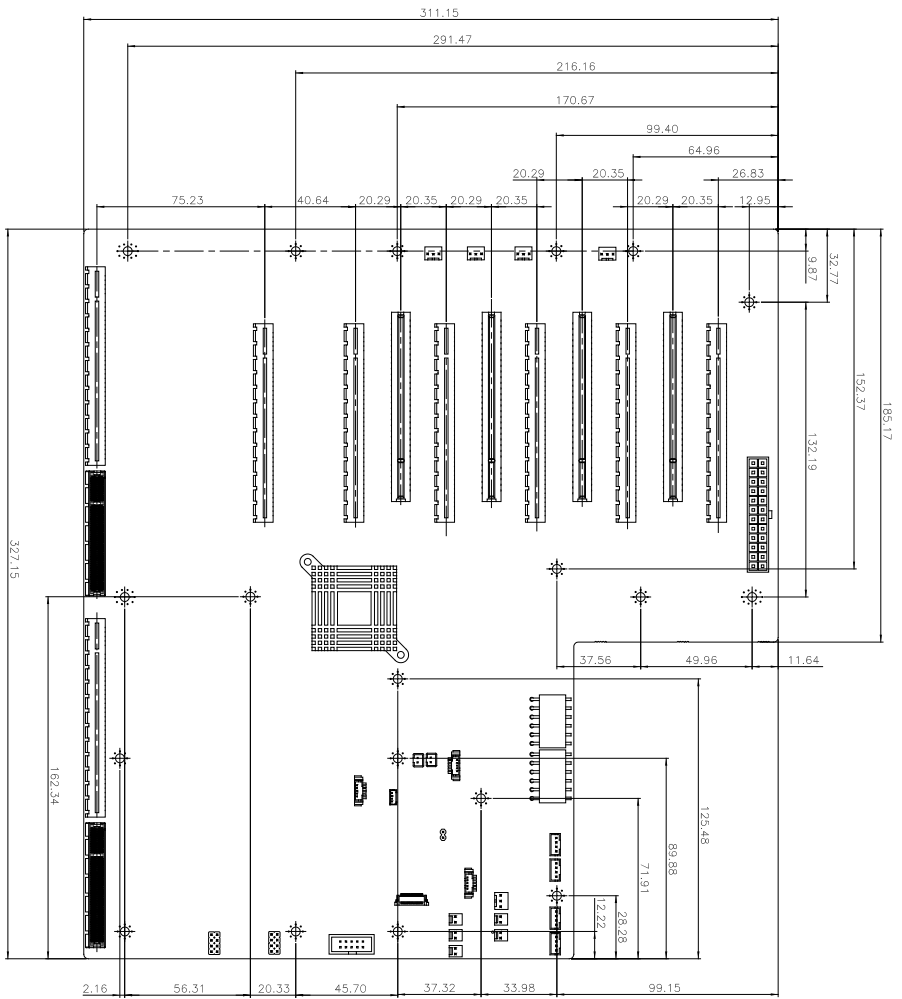
B75	N/C	A75	GND
B76	GND	A76	N/C
B77	GND	A77	N/C
B78	N/C	A78	GND
B79	N/C	A79	GND
B80	GND	A80	EX_RXP15
B81	N/C	A81	EX_RXN15
B82	N/C	A82	GND

PCI1 ~ PCI4: PCI Connectors			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
B1	-VCC12	A1	TRST#
B2	TCK	A2	+12V
B3	GND	A3	TMS
B4	TDO	A4	TDI
B5	+5V	A5	+5V
B6	+5V	A6	INTA#
B7	INTB#	A7	INTC#
B8	INTD#	A8	+5V
B9	PRSNT#	A9	RSVD
B10	RSVD	A10	+5V
B11	PRSNT#	A11	RSVD
B12	GND	A12	GND
B13	GND	A13	GND
B14	RSVD	A14	+3.3VAUX
B15	GND	A15	RST#
B16	CLK	A16	+5V
B17	GND	A17	GNT#
B18	REQ#	A18	GND
B19	+5V	A19	PME#
B20	AD31	A20	AD30
B21	AD29	A21	+3.3V
B22	GND	A22	AD28

B23	AD27	A23	AD26
B24	AD25	A24	GND
B25	+3.3V	A25	AD24
B26	C/BE3#	A26	IDSEL
B27	AD23	A27	+3.3V
B28	GND	A28	AD22
B29	AD21	A29	AD30
B30	AD19	A30	GND
B31	+3.3V	A31	AD18
B32	AD17	A32	AD16
B33	C/BE2#	A33	+3.3V
B34	GND	A34	FRAME
B35	IRDY#	A35	GND
B36	+3.3V	A36	TRDY
B37	DEVSEL	A37	GND
B38	GND	A38	STOP#
B39	LOCK#	A39	+3.3V
B40	PERR#	A40	SMBCLK
B41	+3.3V	A41	SMDATA
B42	SERR#	A42	GND
B43	+3.3V	A43	PAR
B44	C/BE1#	A44	AD15
B45	AD14	A45	+3.3V
B46	GND	A46	AD13
B47	AD12	A47	AD11
B48	AD10	A48	GND
B49	GND	A49	AD9
B52	AD8	A52	C/BE0#
B53	AD7	A53	+3.3V
B54	+3.3V	A54	AD6
B55	AD5	A55	AD4
B56	AD3	A56	GND
B57	GND	A57	AD2

B58	AD1	A58	AD0
B59	+5V	A59	+5V
B60	ACK64#	A60	REQ64#
B61	+5V	A61	+5V
B62	+5V	A62	+5V

Board Layout: Jumper and Connector Locations



(Unit: mm)