

14-slot PICMG 1.3 backplane with one PCIe x16 slot (x8 signal) and twelve PCIe x1 slots

SPXE-14S-R20

Quick Installation Guide

Version 2.0

May 29, 2018

Package List

SPXE-14S-R20 package includes the following items:

- 1 x SPXE-14S-R20 module
- 1x QIG



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Specifications

- System Type: PICMG 1.3 Backplane
- PICMG 1.3: 1 ea (full size)
- PCI-E slot:
 - 1 ea from BP CONN_A & BP CONN_B (1 x 8X)
 - Slot type: 8X signal with 16X slot
 - 12 ea from IDT PES8T5 (12 x 1X)
 - Slot type: 1X signal with 4X slot
- PCI slot: 0
- Chassis: Mounting hole compatible with PCI-14S

Ordering Information

- **SPXE-14S-R20:**
14-slot PICMG 1.3 backplane with one PCIe x16 slot (x8 signal) and twelve PCIe x1 slots
- **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
USB1 USB2	External 4 Port USB Connectors from the mainboard
FAN1 FAN2 FAN3 FAN4	Fan Connectors
ATXCTL1	Backplane to mainboard ATX Power Control Connector
PWR1	ATX Power Connectors
12V2	ATX12V Power Source Connectors
PWRBTN	External Power On Button Connector
RESET	External Reset Button Connector
PWRGD	External Power Good Connector
SM-BUS	External System Management Connector
CN1	PCIE X8 SDVO Control Signal Pin
IOPWR	I/O Power Connector

USB1, USB2: External USB 2.0 Connector

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	USBVCC	2	GND
3	DATA-	4	DATA+
5	DATA+	6	DATA-
7	GND	8	USBVCC

FAN1, FAN2, FAN3, FAN4: Fan Connectors

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	+12V
3	NC		

ATXCTL1: Backplane to Mainboard Connector

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	PSON#
3	5VSB		

PWR1: ATX Power Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	GND	15	GND
4	+5V	16	PSON#
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	PWRGD	20	NC
9	+5VSB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	GND

12V2: CPU Power Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	5	+12V
2	GND	6	+12V
3	GND	7	+12V
4	GND	8	+12V

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#

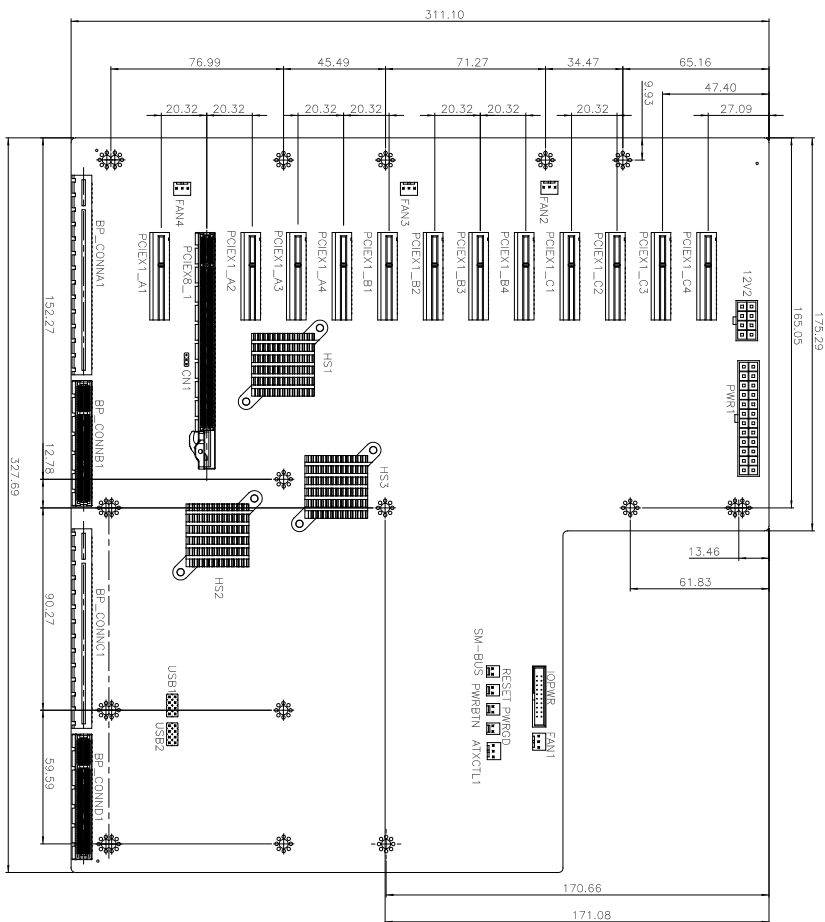
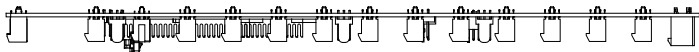
PWRGD: Power Good Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	PWRGD

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

CN1: PCIE X8 SDVO Control Signal Pin			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	EXP_EN	2	SDVO_CLK
3	SDVO_DAT		

IOPWR: I/O Power Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	-12V
3	+12V	4	GND
5	IPMB_DA	6	5VSB
7	GND	8	GND
9	IPMB_CL	10	5VSB
11	+5V	12	PWRGD
13	SMDAT	14	SHB_RST#
15	5VSB	16	GND
17	SMCLK	18	PSON#
19	+3.3V	20	PWRBT#

Board Layout: Jumper and Connector Locations



(Unit: mm)