

**5-slot PICMG 1.3 backplane for half-size SBC
with one PCIe x16 slot and one PCIe x4 slot, RoHS**

HPE2-3S1

Quick Installation Guide

Version 1.0

April 30, 2019

Package List

HPE2-3S1 package includes the following items:

- 1 x HPE2-3S1
- 1 x QIG (Quick Installation Guide)



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Specifications

- Type: PICMG 1.3 (half-size) backplane
- Slots:
 - 1 x PICMG 1.3 slot for half-size SBC
 - 1 x PCIe x16
 - 1 x PCIe x4
- Connector interface:
 - 2 x Fan connector (3-pin)
 - 1 x ATX power control connector (3-pin)
 - 1 x ATX power connector (20-pin)
 - 1 x Power button connector (2-pin)
 - 1 x Reset button connector (2-pin)
 - 1 x Power good connector (2-pin)
 - 1 x System management connector (2-pin)
 - 1 x I/O power connector (20-pin)

Ordering Information

- **HPE2-3S1-R10:**
5-slot PICMG 1.3 backplane for half-size SBC, with one PCIe x16 slot and one PCIe x4 slot, RoHS
- **PR-1500G:**
5-slot half-size compact chassis
- **PAC-400AI:**
4-slot half-size compact chassis
- **RACK-500AI:**
5U 5-slot full-size rackmount chassis

Jumper Settings and Connectors

LABEL	FUNCTION
BP_CONNA1, BP_CONNB1	PICMG 1.3 slots for half-size SBC
PCIEX16_1	PCIe x16 slot
PCIEX4	PCIe x4 slot
ATXPWR1	ATX power connector
ATXCTL1	ATX power control connector
FAN1, FAN2	Fan connectors
IOPWR	I/O power connector
PWRBTN	Power button connector
PWRGD	Power good signal output connector
RESET	Reset button connector
SM-BUS	System management connector

ATXPWR1: ATX Power Connector (p=4.2 mm)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS_ON#
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PWR_OK	18	NC
9	+5VSB	19	+5V
10	+12V	20	+5V

ATXCTL1: ATX Power Control Connector (p=2.54 mm)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	3	5VSB
2	PSO#		

FAN1, FAN2: Fan Connectors (p=2.54 mm)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	NC	3	GND
2	+12V		

IOPWR1: I/O Power Connector (p=2.00 mm)			
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	PSO#
19	+3.3V	20	PWRBT#

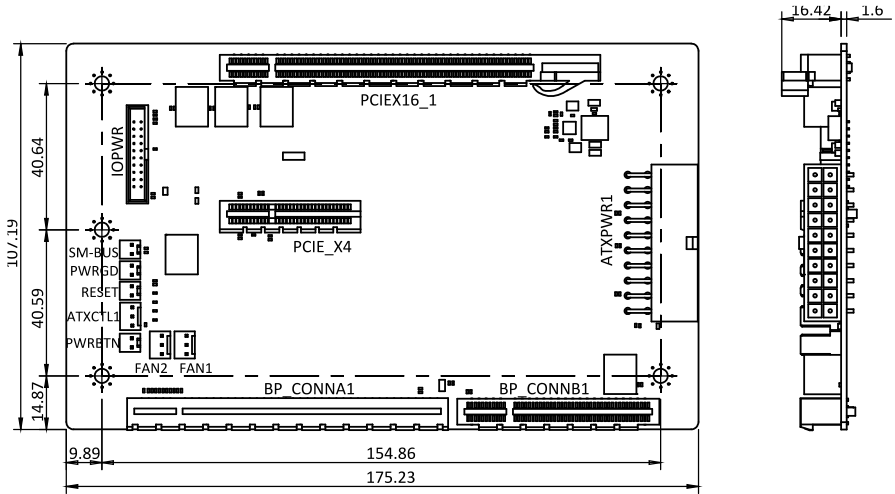
PWRBTN: Power Button Connector (p=2.54 mm)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	PWRBTN#

PWRGD: Power Good Signal Output Connector (p=2.54 mm)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	Power Good

RESET: Reset Button Connector (p=2.54 mm)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	SHB_RST#

SM-BUS: System Management Connector (p=2.54 mm)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	SMDATA	2	SMCLK

Board Layout: Jumper and Connector Locations



(Unit: mm)