

3U cPCI Power BACKPLANE
1 Slot – universal voltage

PICMG 2.0
PICMG 2.11



Key Features:

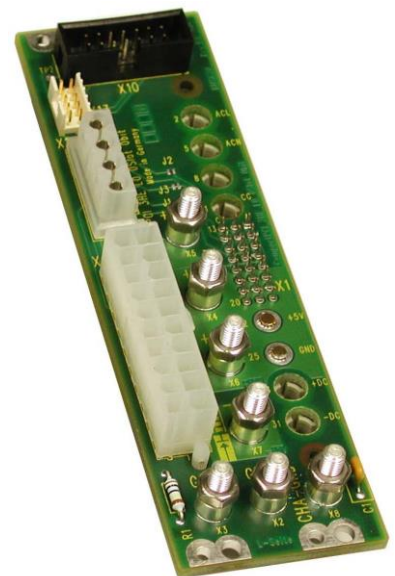
- Compliant to PICMG 2.0 + 2.11 baseline specification
- 1 Slot 3U DIN 41612 type M Connector
- Pin B2 (ACL) facing up
- Input Voltage 85-265VAC, 18-36VDC
- Max Input Current 10A
- Max Output Power 600W
- M4 studs for VS1/5V, VS2/3.3V, VS3/+12V and V4/-12V with current rating max 25 A each
- PCB size 128.40mm x 37.9mm x 2.4 mm
- Fail, Degrade and Sense signals
- Compatible to standard Compact PCI 3U AC and DC PSUs with DIN 41612 type M Connector that comply to PICMG 2.11
- Additional ATX connectors for output voltages
- Operating temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability rating: UL94-V0
- Custom assembly or modification on request

- **Order number: 33L0000014**

Front side



Back side



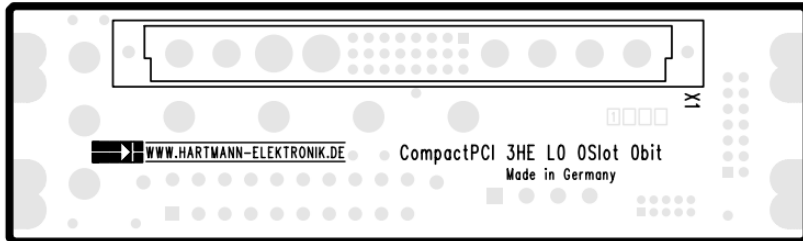
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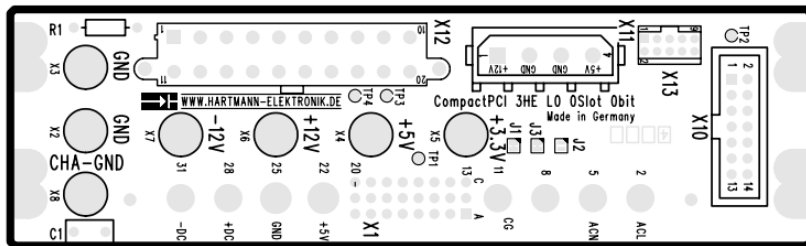


1) Drawings

Front side



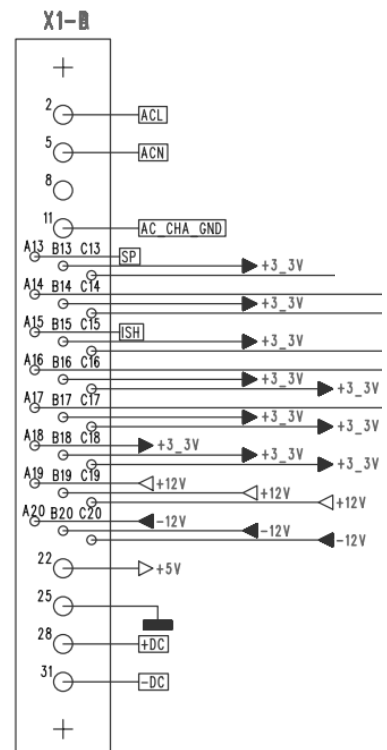
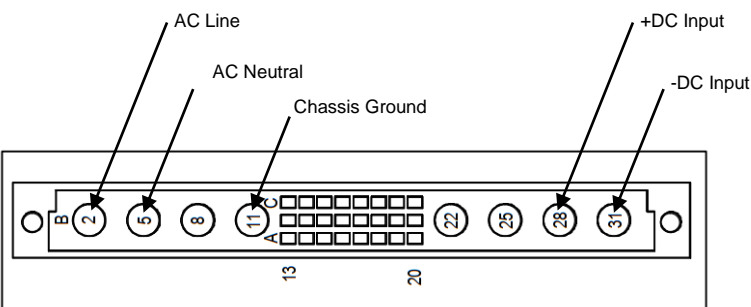
Back side



2) Type M Power Connector (X1)

For 3U PSU Plug-In Modules with DIN 41612 type M connector according to PICMG specification.

Connector Harting 09032246830



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3) Pinout of DIN 41612 type M Connector

Pin	Row A	Row B	Row C
2		ACL	
5		ACN	
8		---	
11		CG	
13	SP	+3.3V	EN-
14	INH-	+3.3V	DEG-
15	ISH	+3.3V	FAL-
16	5S-	+3.3V	+3.3V
17	5S+	+3.3V	+3.3V
18	+3.3V	+3.3V	+3.3V
19	+12V	+12V	+12V
20	-12V	-12V	-12V
22		+5V	
25		GND	
28		+DC	
31		-DC	

4) Power Input

AC or DC Power is supplied to the power supply unit via the DIN41612-Type-M- connector X1 by the below assigned Pins. They are realized with fitting in crimp- or solder-socked-contacts.

Pin	Assignment
B2	ACL
B5	ACN
B11	CG
B28	+DC
B31	-DC

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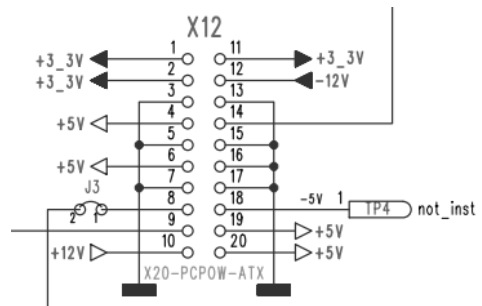


5) Current Capability:

- VS1: +5V 25A
- VS2: +3.3V 12A
- VS3: +12V 3A
- VS4: -12V 3A

6) ATX Connector

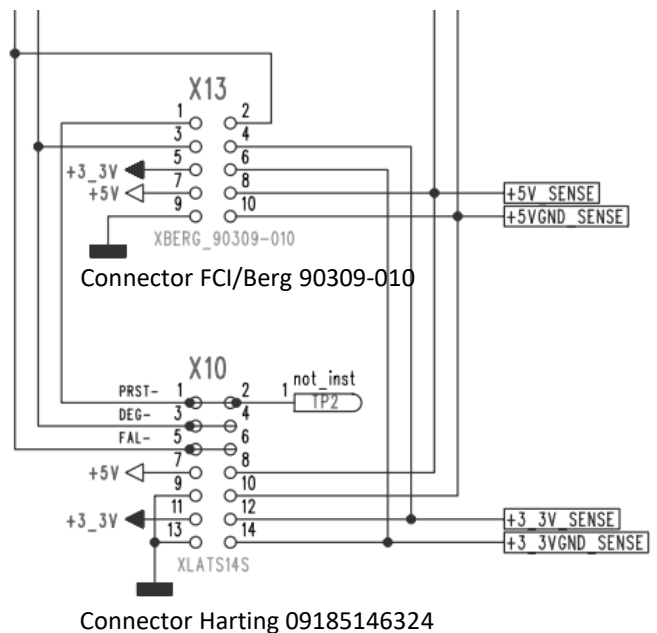
Alternatively to the power studs the main voltages 5V, 3.3V and the auxiliary voltages +12V and -12V can be accessed via ATX connector. This way a simple and cost efficient power supply connection to the backplane is possible with keyed and preassembled ATX cables (e.g. Hartmann F006.00225 25cm or F006.00240 40cm)



Connector Würth Elektronik 649020221732

7) Utility Connectors X10+X13

The special signals from the power supply unit to the backplane to be supplied and, for example, to external LEDs or monitoring devices, are run to connector X10 and X13.



Connector Harting 09185146324

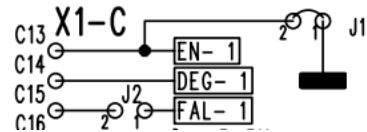
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8) Jumper J1

Jumper J1 connects the EN- signal (X1-C13), which is connected to PS-ON (X12-14), to GND. This permits the power supply unit to be started up automatically. If this is not desirable, jumper J1 is to be removed, and the power supply unit is to be started using external wiring.



9) Auxiliary Connector X11

A 4-pin auxiliary power output on the rear of the backplane can be used to supply +5 V and +12 V power to external drives and devices.



Pin	Assignment
1	+12V
2	GND
3	GND
4	+5V

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