CompactPCI®

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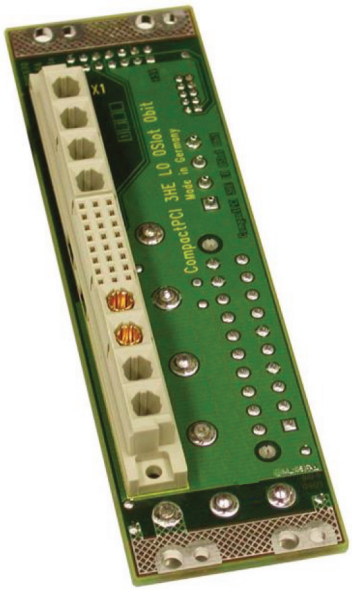
The Power of IoT

3U cPCI Power BACKPLANE **1 Slot – universal voltage**	**PICMG 2.0** **PICMG 2.11**	

Key Features:

- Compliant to PICMG 2.0 + 2.11 baseline specificaĎon
- 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 raĎng max 25 A each
- PCB size 128.40mm x 37.9mm x 2.4 mm
- Fail, Degrade and Sense signals
- CompaĎble to standard Compact PCI 3U AC and DC PSUs with DIN 41612 type M Connector that comply to PICMG 2.11
- AddiĎonal ATX connectors for output voltages
- OperaĎng temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability raĎng: UL94-V0
- Custom assembly or modificaĎon on request

Front side



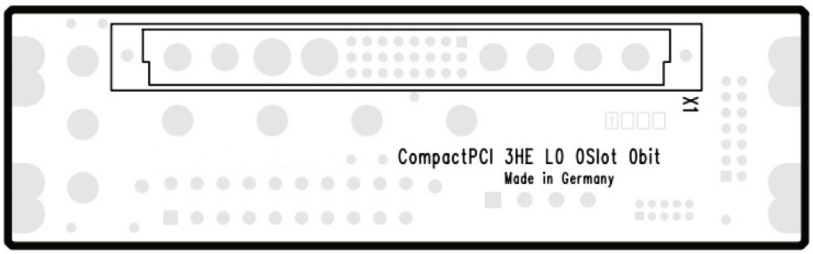
Back side

- **Order number: 33L0000014**

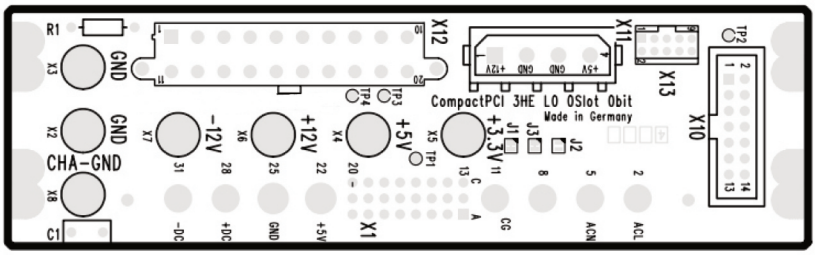
3U cPCI Power BACKPLANE 1 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

1) Drawings

Front side



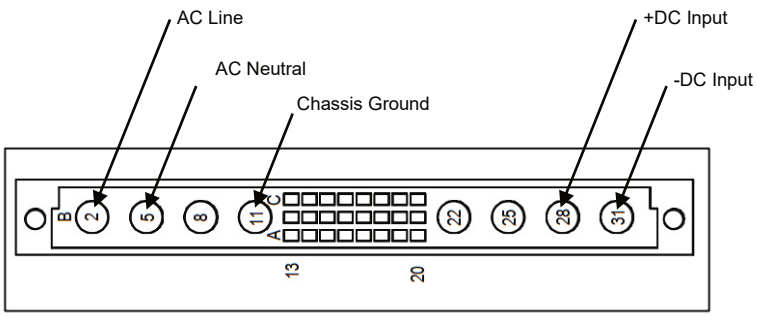
Back side

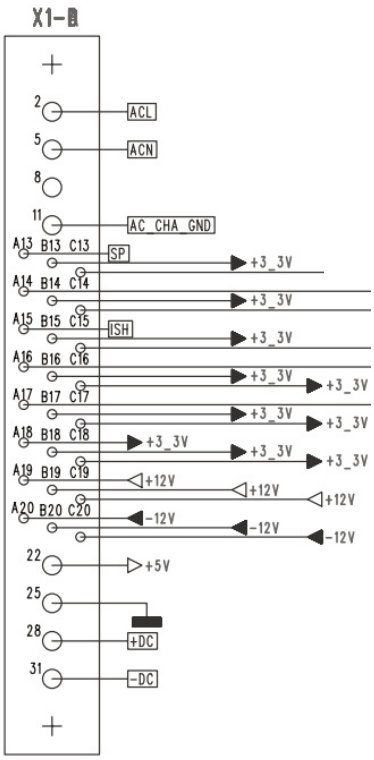


2) Type M Power Connector (X1)

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

Connector HarĎng 09032246830





3U cPCI Power BACKPLANE **1 Slot – universal voltage**	**PICMG 2.0** **PICMG 2.11**	

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 fitĎng in crimp- or solder-socked-contacts.

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

3U cPCI Power BACKPLANE 1 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

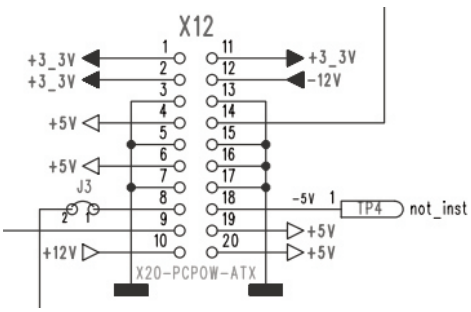
5) Current Capability:

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

6) ATX Connector

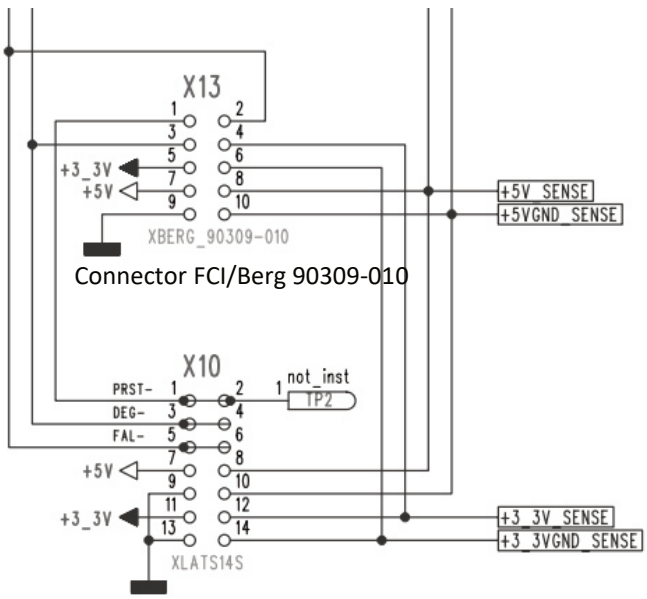
AlternaĎvely to the power studs the main voltages 5V, 3.3V and the auxiliary voltages +12V and -12V can be accessed via ATX connector. This way a simple and cost efficient power supply connecĎon to the backplane is possible with keyed and preassembled ATX cables (e.g. Hartmann F006.00225 25cm or F006.00240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

Connector Würth Elektronik 649020221732



7) UĪ lity Connectors X10+X13

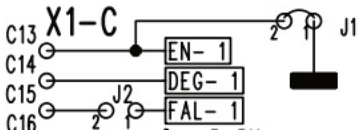
The special signals from the power supply unit to the backplane to be supplied and, for example, to external LEDs or monitoring devices, are run to connector X10 and X13.



Connector FCI/Berg 90309-010

Connector HarĎng 09185146324

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 automaDcally.
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

Germany

HARTMANN ELECTRONIC GmbH
Motorstr. 43
D-70499 Stuttgart
Phone: +49 711 13 98 90
Fax: +49 711 8 66 11 91
info(at)hartmann-electronic.com
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3U cPCI Power BACKPLANE **1 Slot – universal voltage**	**PICMG 2.0** **PICMG 2.11**	

Key Features:

- Compliant to PICMG 2.0 + 2.11 baseline specificaĎon
- 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 raĎng max 25 A each
- PCB size 128.40mm x 37.9mm x 2.4 mm
- Fail, Degrade and Sense signals
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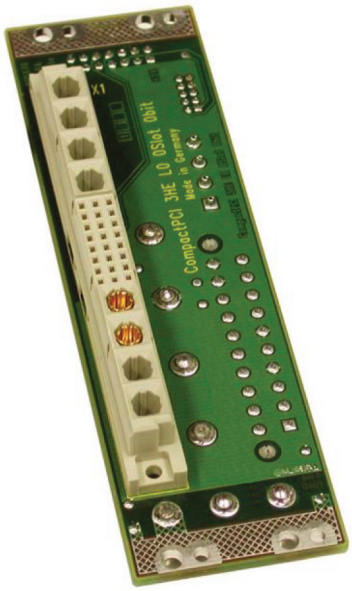
- Custom assembly or modificaĎon on request

Front side



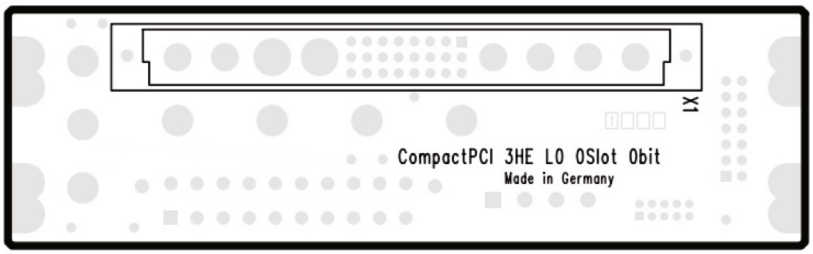
Back side

- **Order number: 33L0000014**

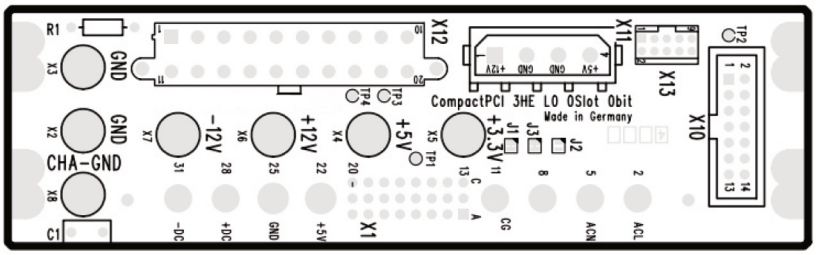
3U cPCI Power BACKPLANE 1 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

1) Drawings

Front side



Back side



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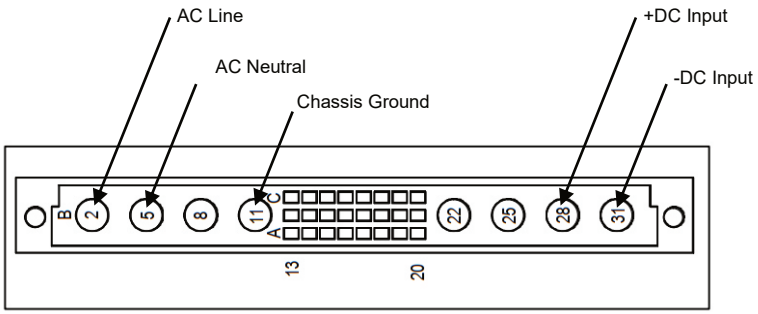
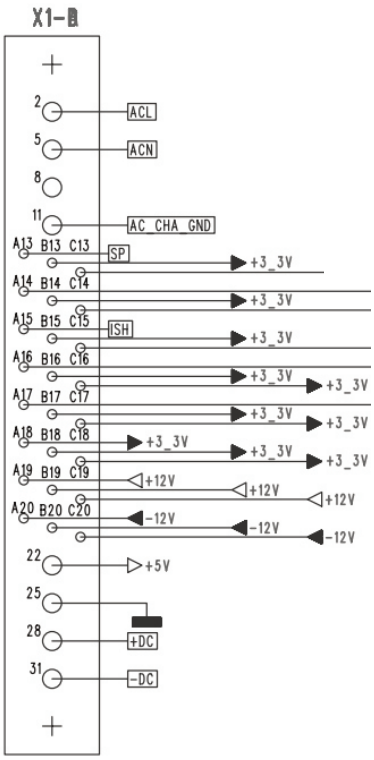
Connector HarĎng 09032246830





3U cPCI Power BACKPLANE **1 Slot – universal voltage**	**PICMG 2.0** **PICMG 2.11**	

3) Pinout of DIN 41612 type M Connector

Pin	Row A	Row B	Row C
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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 fitĎng in crimp- or solder-socked-contacts.

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

3U cPCI Power BACKPLANE 1 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

5) Current Capability:

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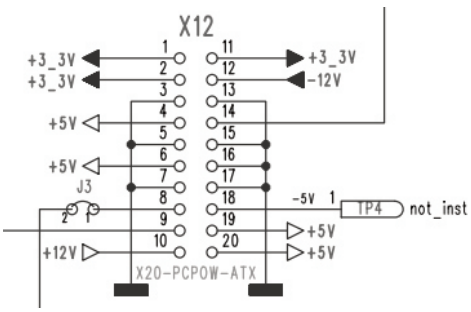
- VS4: -12V 3A

6) ATX Connector

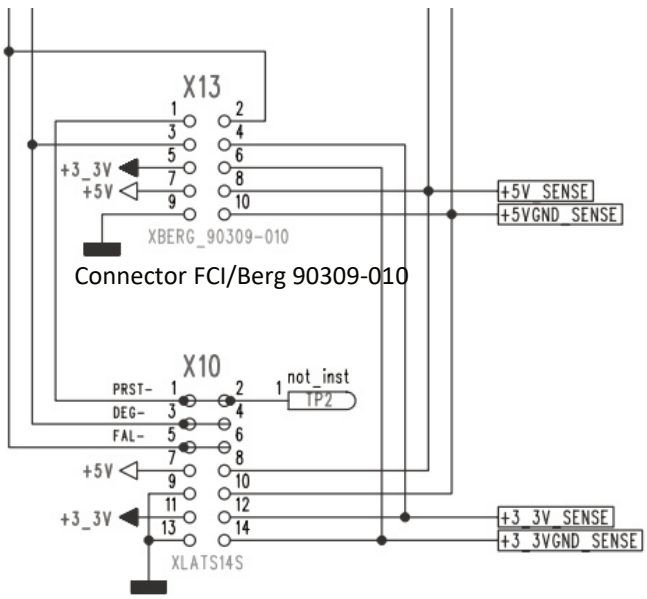
AlternaĎvely to the power studs the main voltages 5V, 3.3V and the auxiliary voltages +12V and -12V can be accessed via ATX connector. This way a simple and cost efficient power supply connecĎon to the backplane is possible with keyed and preassembled ATX cables (e.g. Hartmann F006.00225 25cm or F006.00240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

Connector Würth Elektronik 649020221732



7) UĪ lity Connectors X10+X13

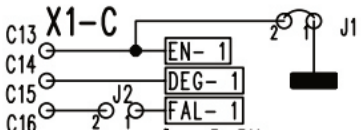
The special signals from the power supply unit to the backplane to be supplied and, for example, to external LEDs or monitoring devices, are run to connector X10 and X13.



Connector FCI/Berg 90309-010

Connector HarĎng 09185146324

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 automaDcally.
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

Germany

HARTMANN ELECTRONIC GmbH
Motorstr. 43
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Phone: +49 711 13 98 90
Fax: +49 711 8 66 11 91
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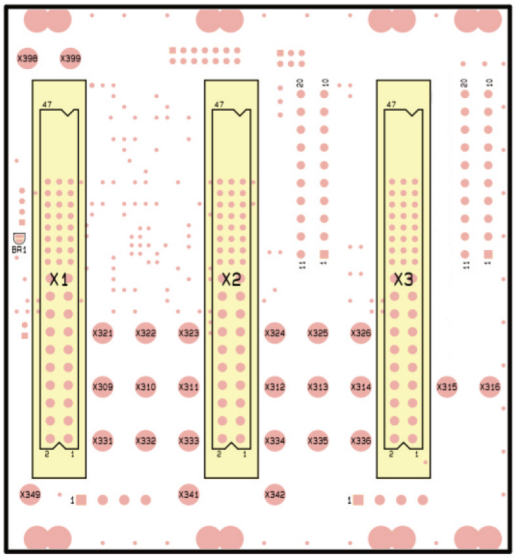
3U cPCI Power BACKPLANE 3 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

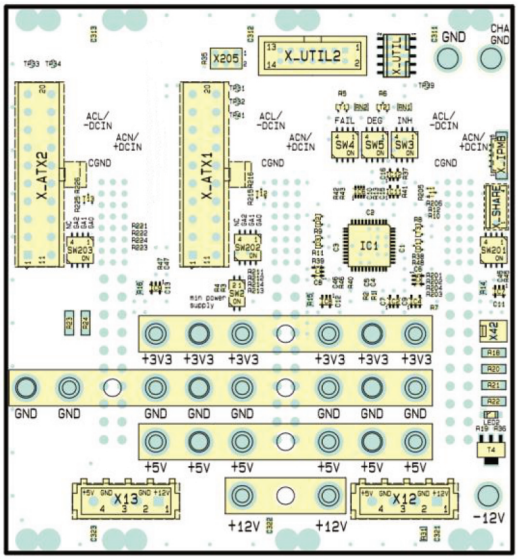
Key Features:

Front side



- Compliant to PICMG 2.0 + 2.11 baseline specificaĎon
- 3 Slots 3U P47 Connector
- Input Voltage 85-265VAC, 18-36VDC
- Max Current 23A per slot
- Max Output Power 3 x 600W
- power rails for VS1/5V (max. 150A), VS2/3.3V (max. 150A), VS3/+12V (max. 50A) and V4/-12V (max. 25A)
- PCB size 128.50mm x 118.93mm x 3.2 mm
- Fail, Reset and Sense signals
- System Management Interface on the backplane
- CompaĎble to standard Compact PCI 3U AC and DC PSUs, such as the Hartmann 300W AC Power Supply part num. D575.00361 or the Hartmann 250W DC Power Supply part num. D575.00251
- Current share signals for parallel use of power supplies
- AddiĎonal ATX connectors for output voltages
- OperaĎng temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability raĎng: UL94-V0
- Custom assembly or modificaĎon on request

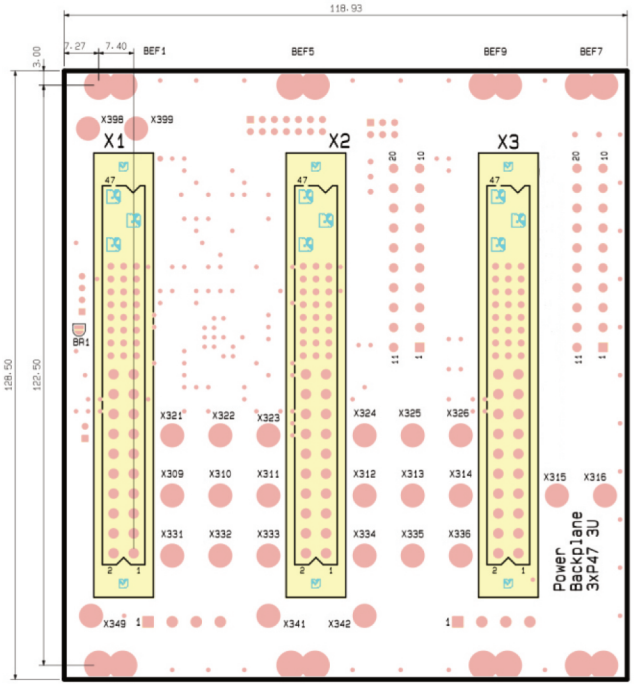
Back side



- **Order number: 33L0030024**

3U cPCI Power BACKPLANE 3 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

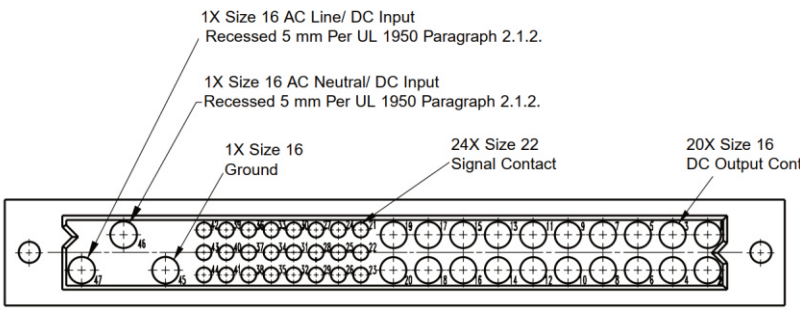
1) Drawing

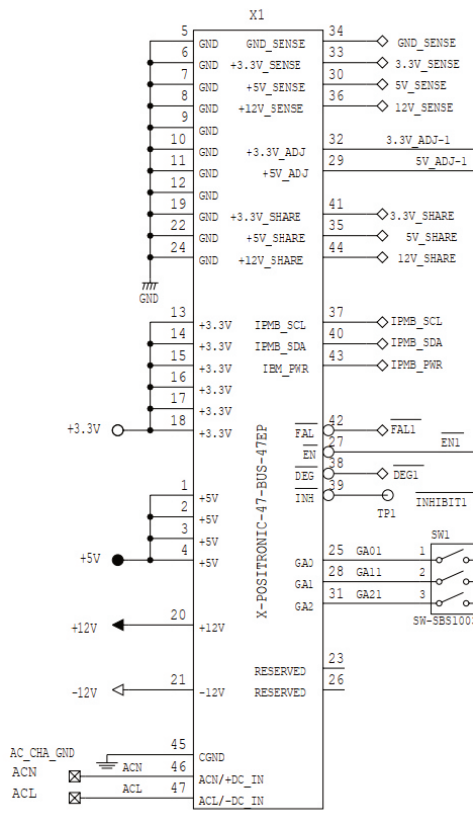


2) 3x P47 Power Connector (X1+X2+X3)

For 3U PSU Plug-In Modules with P47 connector according to PICMG specificaĎon.

Connector Conec CPH47W23FGE3SK9X





3) Pinout of P47 Power Connector (X1+X2+X3)

Pin # (1)	Staging # (2)	Signal Name	Description
1-4	M	V1	V1 Output
5-12	M	RTN	V1 and V2 Return
13-18	M	V2	V2 Output
19	M	RTN	V3 Return
20	M	V3	V3 Output
21	M	V4	V4 Output
22	M	RTN	Signal Return
23	M	RESERVED	Reserved
24	M	RTN	V4 Return
25	M	GA0	Geographic Address Bit 0
26	M	RESERVED	Reserved
27	S	EN#	Enable
28	M	GA1	Geographic Address Bit 1
29	M	V1ADJ	V1 Adjust
30	M	V1 SENSE	V1 Remote Sense
31	M	GA2	Geographic Address Bit 2
32	M	V2ADJ	V2 Adjust
33	M	V2 SENSE	V2 Remote Sense
34	M	S RTN	Sense Return
35	M	V1 SHARE	V1 Current Share
36	M	V3 SENSE	V3 Remote Sense
37	M	IPMB_SCL [3]	Reserved for System Management Bus
38	M	DEG#	Degrade Signal
39	M	INH#	Inhibit
40	M	IPMB_SDA [3]	Reserved for System Management Bus
41	M	V2 SHARE	V2 Current Share
42	M	FAL#	Fail Signal
43	M	IPMB_PWR [3]	Reserved for System Management Bus
44	M	V3 SHARE	V3 Current Share
45	L	CGND	Chassis Ground (safety ground)
46	M	ACN/+DC IN	AC Input – Neutral; +DC Input
47	M	ACL/-DC IN	AC Input – Line; -DC Input

3U cPCI Power BACKPLANE 3 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

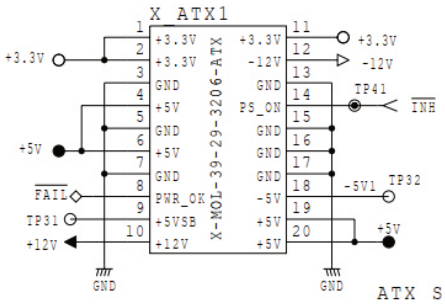
4) Current Capability:

▪ VS1: +5V	64A per slot
▪ VS2: +3.3V	64A per slot
▪ VS3: +12V	16A per slot
▪ VS4: -12V	2A per slot

5) ATX Connector

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

Connector Würth Elektronik 64902021122

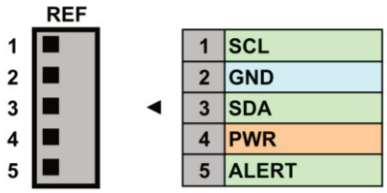


6) IMPB Connector

The separate 5-pin connector for IPMB extension is implemented on the backplane.

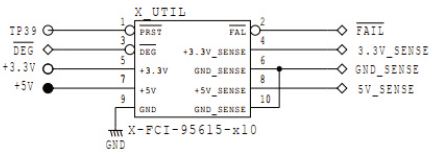
1,3: Serial clock
4: IPMB-Power
5: Not available from PSU

Connector Molex 53398-0571



7) Uİ lity Connectors X_UTIL

The special signals from the power supply are transfered via connector X_UTIL to the backplane which is powered.

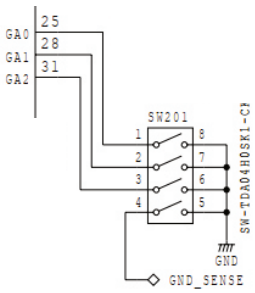


Connector FCI 95615-010TRLF

8) Switch SW1, SW2, SW3 – PSU geographic addressing

With switch SW1, SW2 and SW3 each power backplane in the system can be assigned a unique logical address. Configure GA0-GA2 to set a unique address.

The geographic address is available to the power supply unit which is of great importance when mulĎple equivalent components are used in regard to HOT-SWAP operaĎons.



Power Supply Slot Number	GA2	GA1	GA0
1	GND	GND	GND
2	GND	GND	Open
3	GND	Open	GND
4	GND	Open	Open
5	Open	GND	GND
6	Open	GND	Open
7	Open	Open	GND
8	Open	Open	Open

Germany

HARTMANN ELECTRONIC GmbH
Motorstr. 43
D-70499 Stuttgart
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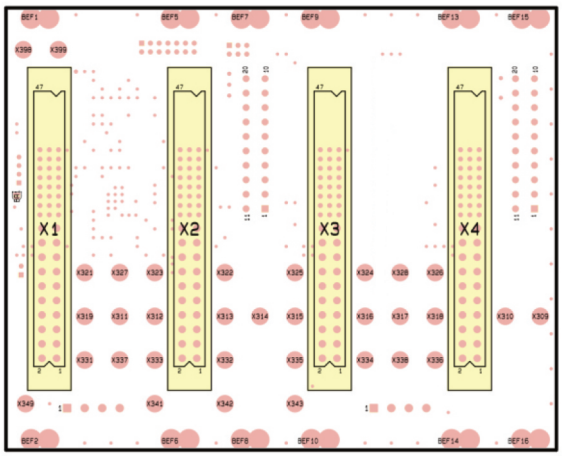
3U cPCI Power BACKPLANE 4 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

Key Features:

Front side



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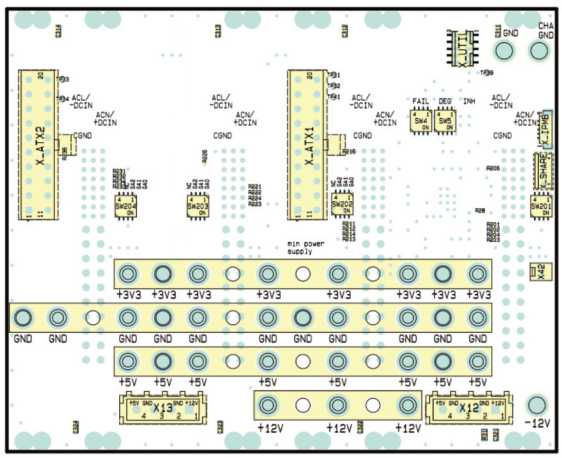
- Custom assembly or modificaĎon on request

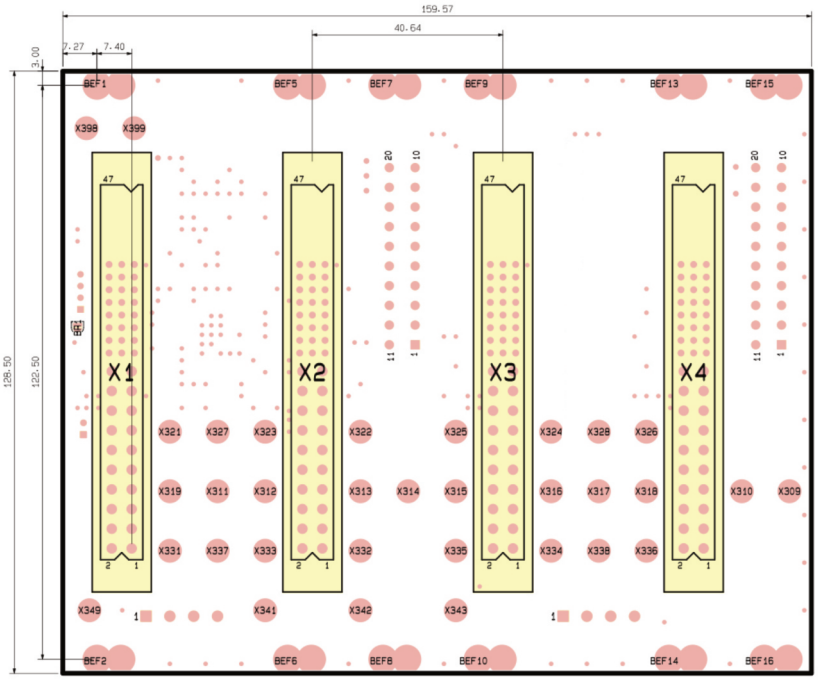
Back side



- **Order number: 33L0040024**

3U cPCI Power BACKPLANE 4 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

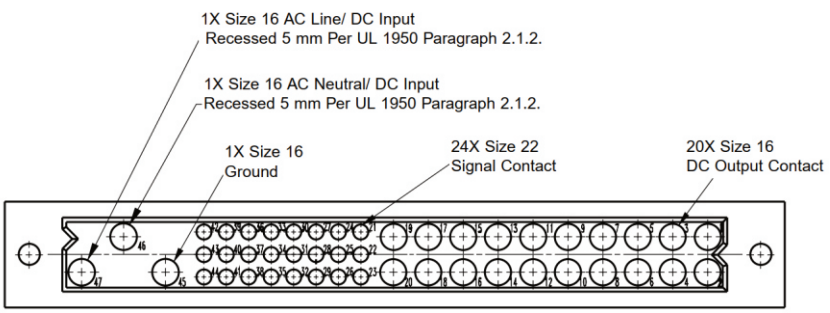
1) Drawing

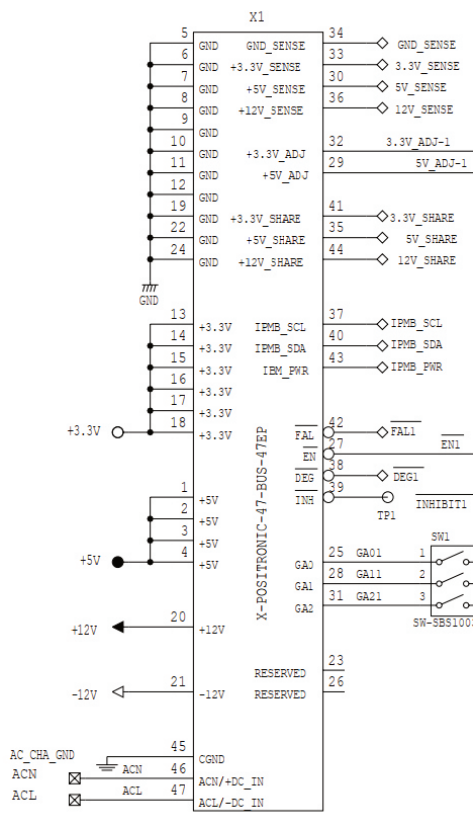


2) 4x P47 Power Connector (X1+X2+X3+X4)

For 3U PSU Plug-In Modules with P47 connector according to PICMG specificaĎon.

Connector Conec CPH47W23FGE3SK9X





3) Pinout of P47 Power Connector (X1+X2+X3+X4)

Pin # (1)	Staging # (2)	Signal Name	Description
1-4	M	V1	V1 Output
5-12	M	RTN	V1 and V2 Return
13-18	M	V2	V2 Output
19	M	RTN	V3 Return
20	M	V3	V3 Output
21	M	V4	V4 Output
22	M	RTN	Signal Return
23	M	RESERVED	Reserved
24	M	RTN	V4 Return
25	M	GA0	Geographic Address Bit 0
26	M	RESERVED	Reserved
27	S	EN#	Enable
28	M	GA1	Geographic Address Bit 1
29	M	V1ADJ	V1 Adjust
30	M	V1 SENSE	V1 Remote Sense
31	M	GA2	Geographic Address Bit 2
32	M	V2ADJ	V2 Adjust
33	M	V2 SENSE	V2 Remote Sense
34	M	S RTN	Sense Return
35	M	V1 SHARE	V1 Current Share
36	M	V3 SENSE	V3 Remote Sense
37	M	IPMB_SCL [3]	Reserved for System Management Bus
38	M	DEG#	Degrade Signal
39	M	INH#	Inhibit
40	M	IPMB_SDA [3]	Reserved for System Management Bus
41	M	V2 SHARE	V2 Current Share
42	M	FAL#	Fail Signal
43	M	IPMB_PWR [3]	Reserved for System Management Bus
44	M	V3 SHARE	V3 Current Share
45	L	CGND	Chassis Ground (safety ground)
46	M	ACN/+DC IN	AC Input – Neutral; +DC Input
47	M	ACL/-DC IN	AC Input – Line; -DC Input

3U cPCI Power BACKPLANE 4 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

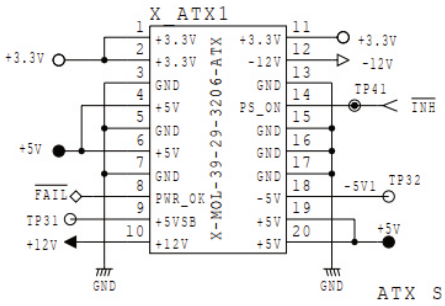
4) Current Capability:

▪ VS1: +5V	64A per slot
▪ VS2: +3.3V	64A per slot
▪ VS3: +12V	16A per slot
▪ VS4: -12V	2A per slot

5) ATX Connector

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

Connector Würth Elektronik 64902021122

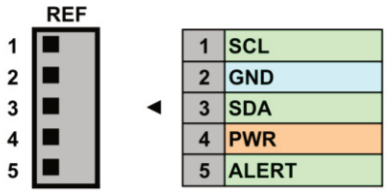


6) IMPB Connector

The separate 5-pin connector for IPMB extension is implemented on the backplane.

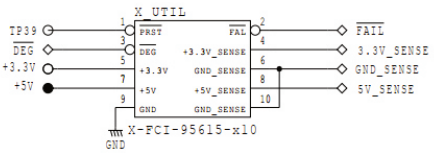
1,3: Serial clock
4: IPMB-Power
5: Not available from PSU

Connector Molex 53398-0571



7) Uİ lity Connectors X_UTIL

The special signals from the power supply are transfered via connector X_UTIL to the backplane which is powered.

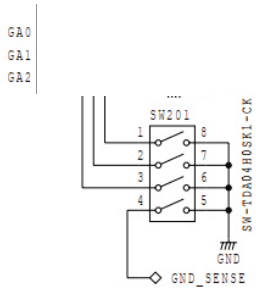


Connector FCI 95615-010TRLF

8) Switch SW1, SW2, SW3, SW4 – PSU geographic addressing

With switch SW1, SW2, SW3 and SW4 each power backplane in the system can be assigned a unique logical address. Configure GA0-GA2 to set a unique address.

The geographic address is available to the power supply unit which is of great importance when mulĎple equivalent components are used in regard to HOT-SWAP operaĎons.



Power Supply Slot Number	GA2	GA1	GA0
1	GND	GND	GND
2	GND	GND	Open
3	GND	Open	GND
4	GND	Open	Open
5	Open	GND	GND
6	Open	GND	Open
7	Open	Open	GND
8	Open	Open	Open

Germany

HARTMANN ELECTRONIC GmbH
Motorstr. 43
D-70499 Stuttgart
Phone: +49 711 13 98 90
Fax: +49 711 8 66 11 91
info(at)hartmann-electronic.com
www.hartmann-electronic.com

All data is for informaĎon purposes only and not guaranteed for legal purposes. InformaĎon has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. SpecificaĎons are subject to change without noĎce.

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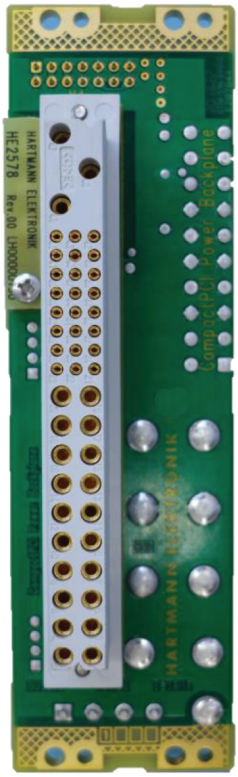
3U cPCI Power BACKPLANE **1 Slot – universal voltage**	**PICMG 2.0** **PICMG 2.11**	

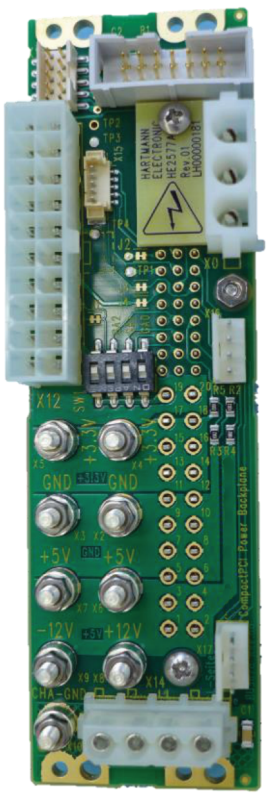
Key Features:

- Compliant to PICMG 2.0 + 2.11 baseline specificaĎon
- 1 Slot 3U P47 Connector
- Input Voltage 85-265VAC, 18-36VDC
- Max Input Current 23A
- Max Output Power 600W
- M3 studs for VS1/5V, VS2/3.3V, VS3/+12V and V4/-12V with current raĎng max 25 A each
- PCB size 128.40mm x 37.9mm x 3.2 mm
- Fail, Reset and Sense signals
- System Management Interface on the backplane
- CompaĎble to standard Compact PCI 3U AC and DC PSUs, such as the Hartmann 300W AC Power Supply part num. D575.00361 or the Hartmann 250W DC Power Supply part num. D575.00251
- Current share signals for parallel use of power supplies
- AddiĎonal ATX connectors for output voltages
- OperaĎng temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability raĎng: UL94-V0
- Custom assembly or modificaĎon on request

Front side



Back side

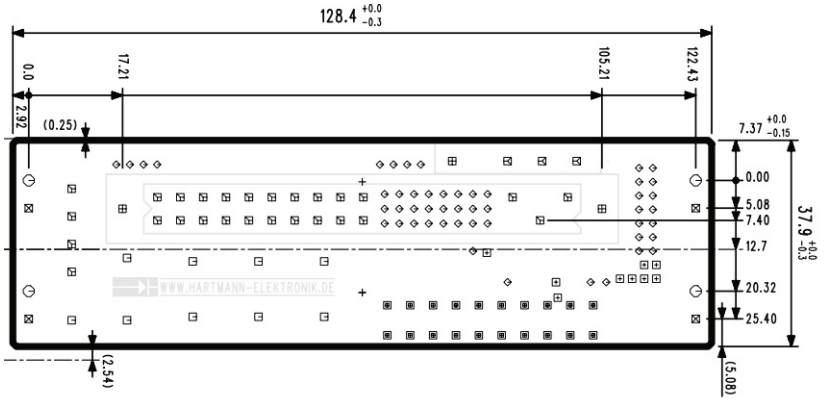


- **Order number: 33L1000014**

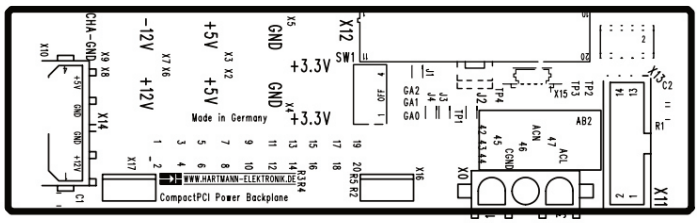
3U cPCI Power BACKPLANE 1 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

1) Drawings

Front side



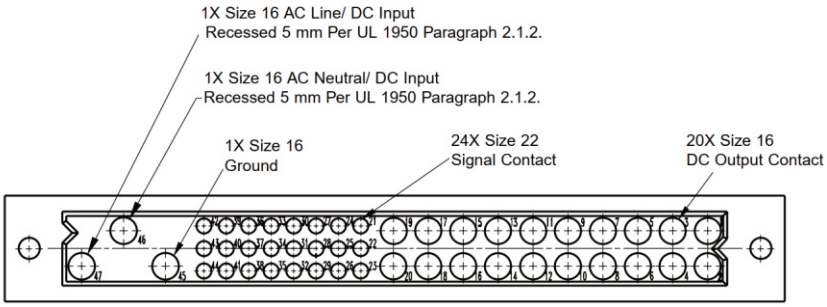
Back side

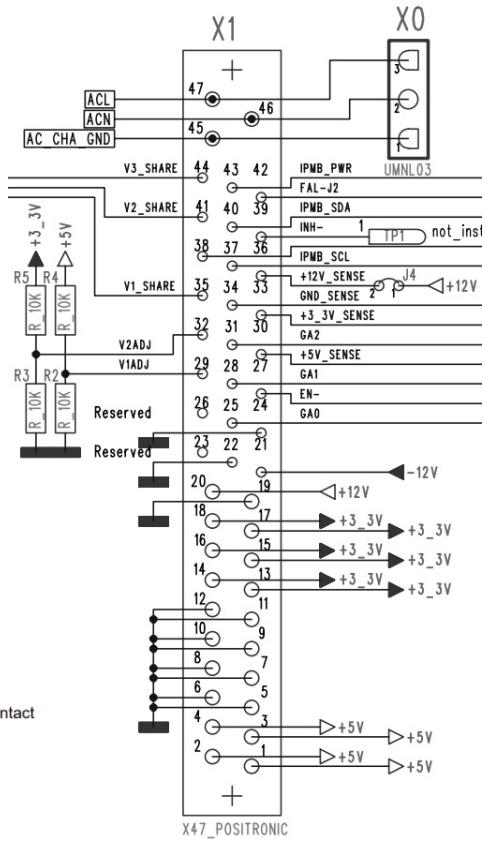


2) P47 Power Connector (X1)

For 3U PSU Plug-In Modules with P47 connector according to PICMG specificaĎon.

Connector Conec CPH47W23FGE3SK9X





3) Pinout of P47 Power Connector (X1)

Pin # (1)	Staging # (2)	Signal Name	Description
1-4	M	V1	V1 Output
5-12	M	RTN	V1 and V2 Return
13-18	M	V2	V2 Output
19	M	RTN	V3 Return
20	M	V3	V3 Output
21	M	V4	V4 Output
22	M	RTN	Signal Return
23	M	RESERVED	Reserved
24	M	RTN	V4 Return
25	M	GA0	Geographic Address Bit 0
26	M	RESERVED	Reserved
27	S	EN#	Enable
28	M	GA1	Geographic Address Bit 1
29	M	V1ADJ	V1 Adjust
30	M	V1 SENSE	V1 Remote Sense
31	M	GA2	Geographic Address Bit 2
32	M	V2ADJ	V2 Adjust
33	M	V2 SENSE	V2 Remote Sense
34	M	S RTN	Sense Return
35	M	V1 SHARE	V1 Current Share
36	M	V3 SENSE	V3 Remote Sense
37	M	IPMB_SCL [3]	Reserved for System Management Bus
38	M	DEG#	Degrade Signal
39	M	INH#	Inhibit
40	M	IPMB_SDA [3]	Reserved for System Management Bus
41	M	V2 SHARE	V2 Current Share
42	M	FAL#	Fail Signal
43	M	IPMB_PWR [3]	Reserved for System Management Bus
44	M	V3 SHARE	V3 Current Share
45	L	CGND	Chassis Ground (safety ground)
46	M	ACN/+DC IN	AC Input – Neutral; +DC Input
47	M	ACL/-DC IN	AC Input – Line; -DC Input

3U cPCI Power BACKPLANE 1 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

4) Power Input Connector (XIN)

3 Pin Mate-N-Lok Connector.

1: CASE GND

2, 3: Input voltage 85-264V (AC), 18-36V (DC)

Connector AMP 350429-1

MaĎng with:
TE 1586849-1

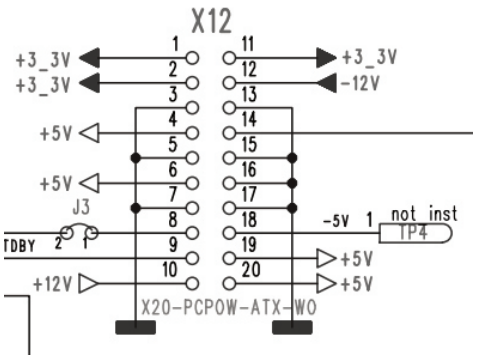
5) Current Capability:

- VS1: +5V 64A
- VS2: +3.3V 64A
- VS3: +12V 16A
- VS4: -12V 2A

6) ATX Connector

AlternaĎvely 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 connecĎon to the backplane is possible with keyed and preassembled ATX cables (e.g. Hartmann F006.00225 25cm or F006.00240 40cm)

Connector Würth Elektronik 64902021122

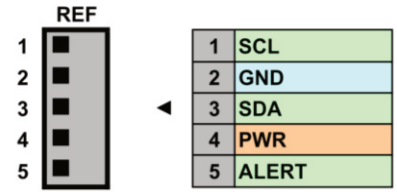


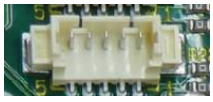
7) IMPB Connector

The separate 5-pin connector for IPMB extension is implemented on the backplane.

1,3: Serial clock
4: IPMB-Power
5: Not available from PSU

Connector Molex 53398-0571



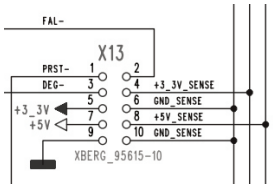


MaĎng with:
PicoBlade Cable Assembly 15134

3U cPCI Power BACKPLANE 1 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

8) Utility Connectors X13

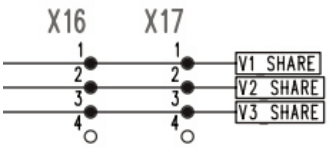
The special signals from the power supply are transfered via connector X13 to the backplane which is powered.



Connector FCI 95615-010TRLF

9) Current Share connectors X16 and X17

When mulDple power backplanes and PSUs are used the current share signals V1 Share, V2 Share and V3 Share can be passed on to another power backplane with connectors X16 and X17.

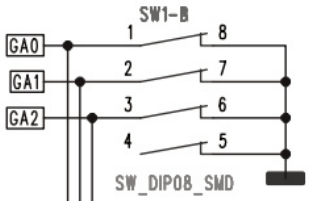


Connector Tyco 171825-4

10) Switch SW1 – PSU geographic addressing

With switch SW1 each power backplane in the system can be assigned a unique logical address. Configure GA0-GA2 to set a unique address.

The geographic address is available to the power supply unit which is of great importance when mulDple equivalent components are used in regard to HOT-SWAP operaDons.



Power Supply Slot Number	GA2	GA1	GA0
1	GND	GND	GND
2	GND	GND	Open
3	GND	Open	GND
4	GND	Open	Open
5	Open	GND	GND
6	Open	GND	Open
7	Open	Open	GND
8	Open	Open	Open

Germany

HARTMANN ELECTRONIC GmbH
Motorstr. 43
D-70499 Stuttgart
Phone: +49 711 13 98 90
Fax: +49 711 8 66 11 91
info(at)hartmann-electronic.com
www.hartmann-electronic.com

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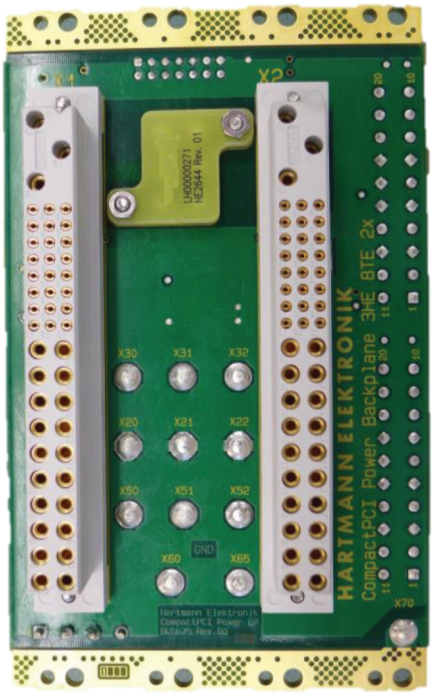
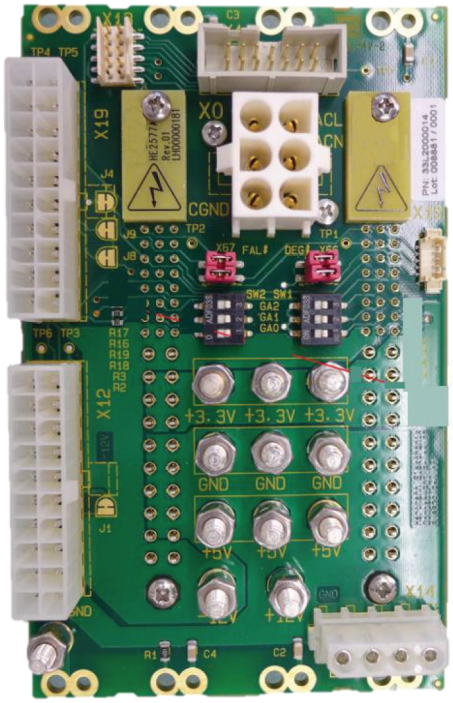
3U cPCI Power BACKPLANE **2 Slot – universal voltage**	**PICMG 2.0** **PICMG 2.11**	

Key Features:



Front side

- Compliant to PICMG 2.0 + 2.11 baseline specificaĎon
- 2 Slots 3U P47 Connector
- Input Voltage 85-265VAC, 18-36VDC
- Max Current 23A per slot
- Max Output Power 2 x 600W
- M3 studs for VS1/5V, VS2/3.3V, VS3/+12V and V4/-12V with current raĎng max 25 A each
- PCB size 128.40mm x 78.29mm x 3.2 mm
- Fail, Reset and Sense signals
- System Management Interface on the backplane
- CompaĎble to standard Compact PCI 3U AC and DC PSUs, such as the Hartmann 300W AC Power Supply part num. D575.00361 or the Hartmann 250W DC Power Supply part num. D575.00251
- Current share signals for parallel use of power supplies
- AddiĎonal ATX connectors for output voltages
- OperaĎng temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability raĎng: UL94-V0
- Custom assembly or modificaĎon on request

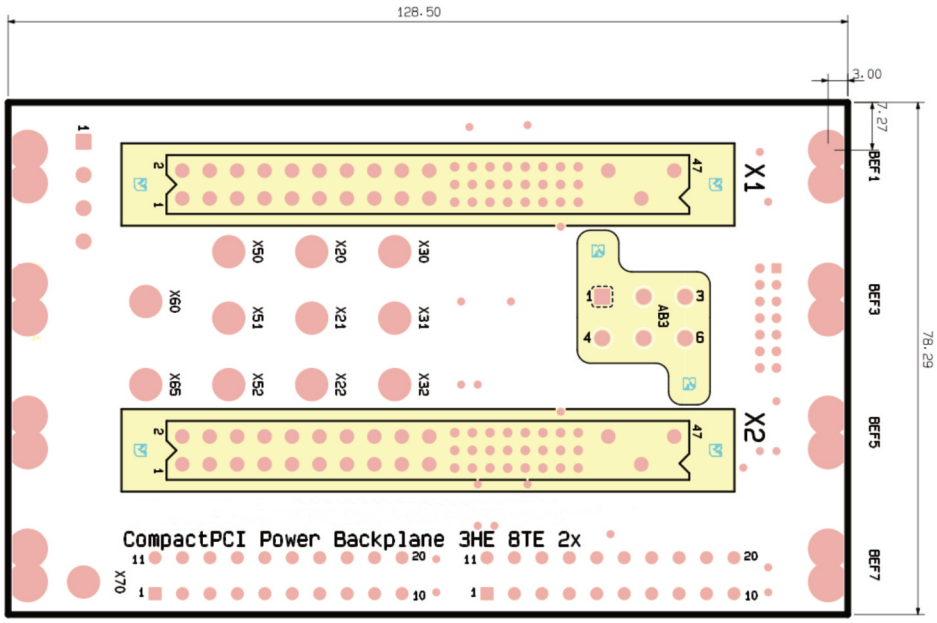


Back side

- **Order number: 33L2000014**

3U cPCI Power BACKPLANE **2 Slot – universal voltage**	**PICMG 2.0** **PICMG 2.11**	

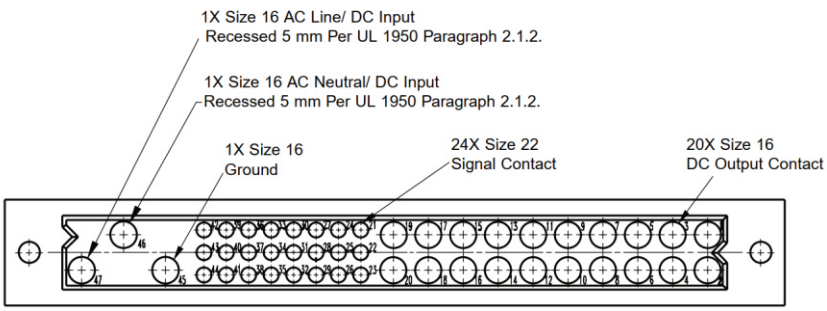
1) Drawing

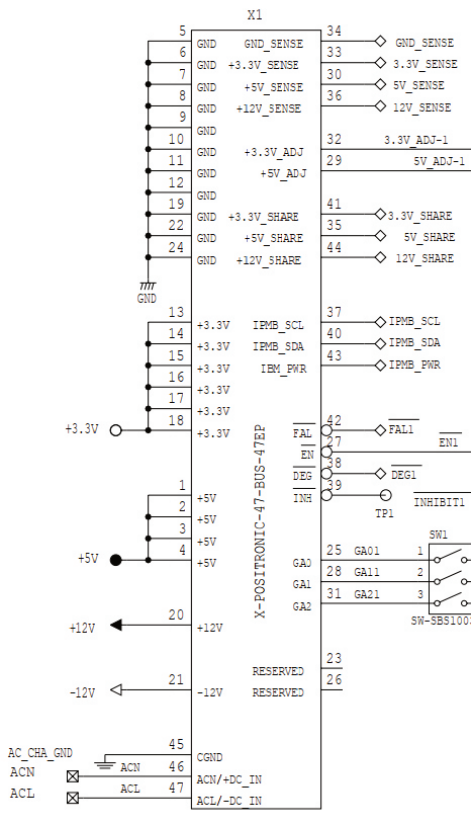


2) 2x P47 Power Connector (X1+X2)

For 3U PSU Plug-In Modules with P47 connector according to PICMG specificaĎon.

Connector Conec CPH47W23FGE3SK9X



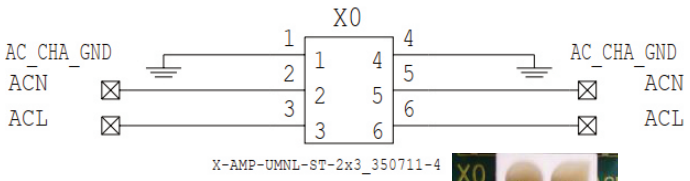


3) Pinout of P47 Power Connector (X1+X2)

Pin # (1)	Staging # (2)	Signal Name	Description
1-4	M	V1	V1 Output
5-12	M	RTN	V1 and V2 Return
13-18	M	V2	V2 Output
19	M	RTN	V3 Return
20	M	V3	V3 Output
21	M	V4	V4 Output
22	M	RTN	Signal Return
23	M	RESERVED	Reserved
24	M	RTN	V4 Return
25	M	GA0	Geographic Address Bit 0
26	M	RESERVED	Reserved
27	S	EN#	Enable
28	M	GA1	Geographic Address Bit 1
29	M	V1ADJ	V1 Adjust
30	M	V1 SENSE	V1 Remote Sense
31	M	GA2	Geographic Address Bit 2
32	M	V2ADJ	V2 Adjust
33	M	V2 SENSE	V2 Remote Sense
34	M	S RTN	Sense Return
35	M	V1 SHARE	V1 Current Share
36	M	V3 SENSE	V3 Remote Sense
37	M	IPMB_SCL [3]	Reserved for System Management Bus
38	M	DEG#	Degrade Signal
39	M	INH#	Inhibit
40	M	IPMB_SDA [3]	Reserved for System Management Bus
41	M	V2 SHARE	V2 Current Share
42	M	FAL#	Fail Signal
43	M	IPMB_PWR [3]	Reserved for System Management Bus
44	M	V3 SHARE	V3 Current Share
45	L	CGND	Chassis Ground (safety ground)
46	M	ACN/+DC IN	AC Input – Neutral; +DC Input
47	M	ACL/-DC IN	AC Input – Line; -DC Input

3U cPCI Power BACKPLANE 2 Slot – universal voltage	PICMG 2.0 PICMG 2.11	

4) Power Input Connector (X0)



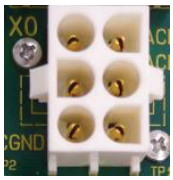
2x3 Pin Mate-N-Lok Connector.

1,4: CASE GND

2, 3, 5, 6: Input voltage 85-264V (AC), 18-36V (DC)

Connector AMP 350711-4

MaĎng with:
TE 350715-1



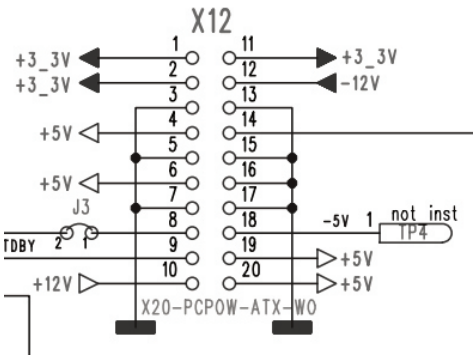
5) Current Capability:

▪ VS1: +5V	64A per slot
▪ VS2: +3.3V	64A per slot
▪ VS3: +12V	16A per slot
▪ VS4: -12V	2A per slot

6) ATX Connector

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

Connector Würth Elektronik 64902021122

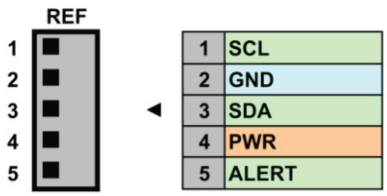


7) IMPB Connector

The separate 5-pin connector for IPMB extension is implemented on the backplane.

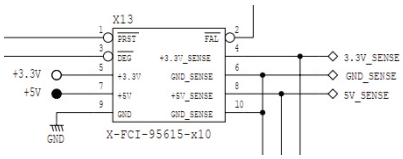
1,3: Serial clock
4: IPMB-Power
5: Not available from PSU

Connector Molex 53398-0571

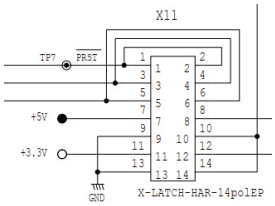


8) Utility Connectors X11 and X13

The special signals from the power supply are transfered via connector X11 or X13 to the backplane which is powered.



Connector FCI 95615-010TRLF

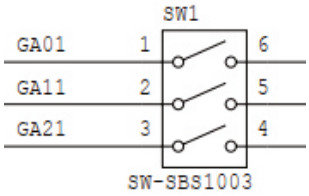


HarĎng 09185146324

9) Switch SW1, SW2 – PSU geographic addressing

With switch SW1 and SW2 each power backplane in the system can be assigned a unique logical address. Configure GA0-GA2 to set a unique address.

The geographic address is available to the power supply unit which is of great importance when mulĎple equivalent components are used in regard to HOT-SWAP operaĎons.



Power Supply Slot Number	GA2	GA1	GA0
1	GND	GND	GND
2	GND	GND	Open
3	GND	Open	GND
4	GND	Open	Open
5	Open	GND	GND
6	Open	GND	Open
7	Open	Open	GND
8	Open	Open	Open

Germany

HARTMANN ELECTRONIC GmbH
Motorstr. 43
D-70499 Stuttgart
Phone: +49 711 13 98 90
Fax: +49 711 8 66 11 91
info(at)hartmann-electronic.com
www.hartmann-electronic.com

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