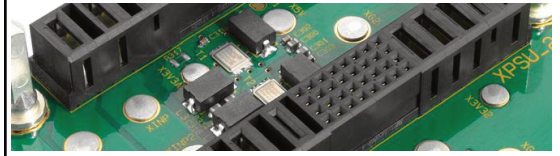


6U VPX Power BACKPLANE 1 Slot – AC Input Voltage

VITA 62



Key Features:

- Compliant to VITA 62 baseline specification
- 1 Slot J0 and J1 Connector
- Input Voltage 85-265VAC
- Max Current 25A at 115V or 12.5A at 230V
- Max Output Power 2295-7155W (90% eff.)
- M4 studs for VS1, VS2/12V (max. 40A), VS3/5V (max. 80A) and GND (max. 200A)
- PCB size 261.85mm x 38.92mm x 3.0 mm
- Fail, Reset and Sense signals
- Flexible keying and alignment mechanism
- Enable and Inhibit signals accessible
- System Management Interface on the backplane (I2CA, I2CB)
- Compatible to standard VPX 6U AC PSU, such as the Hartmann 1000W AC Power Supply part num. D575.01000
- Operating temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability rating: UL94-V0
- Custom assembly or modification on request

Front side



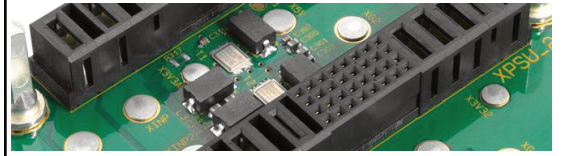
Back side



Order number: B1961AM220

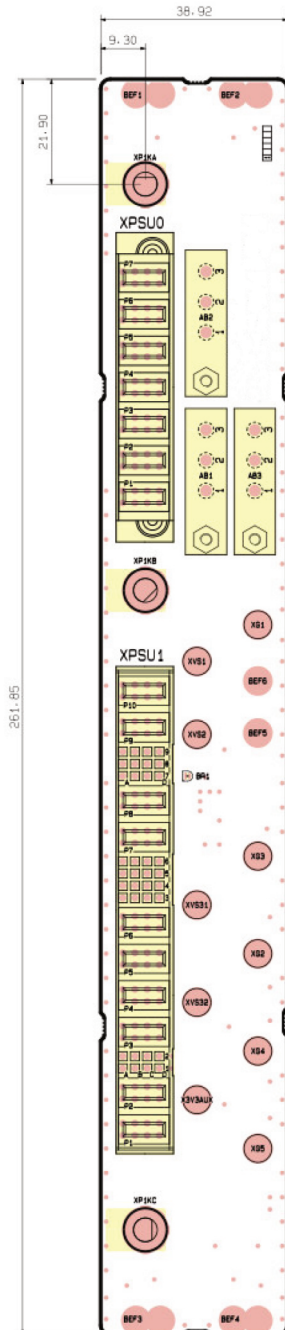
6U VPX Power BACKPLANE 1 Slot – AC Input Voltage

VITA 62

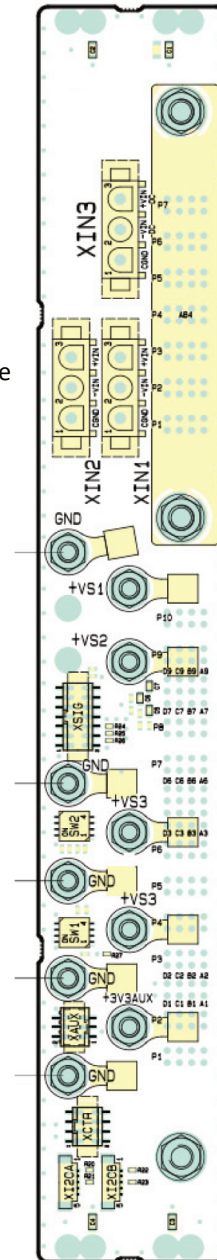


1) Drawings

Front side



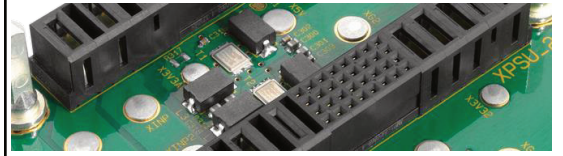
Back side



6U VPX Power BACKPLANE

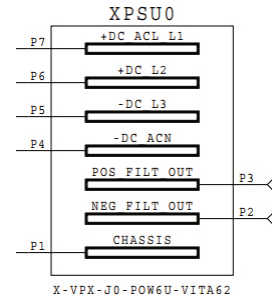
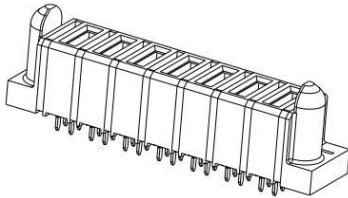
1 Slot – AC Input Voltage

VITA 62

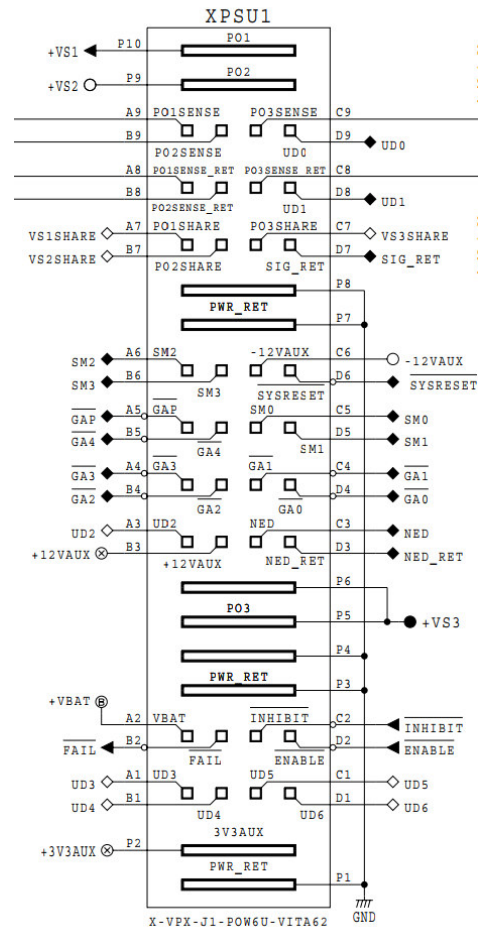
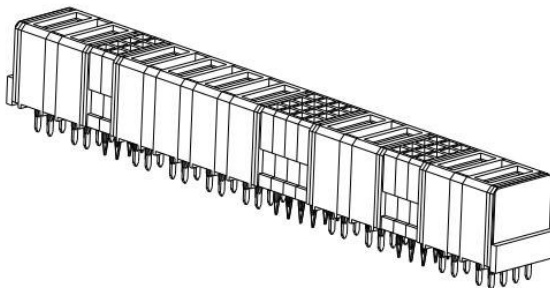


2) Power Connectors

J0 Power Connector (XPSU0)



J1 Power Connector (XPSU1)



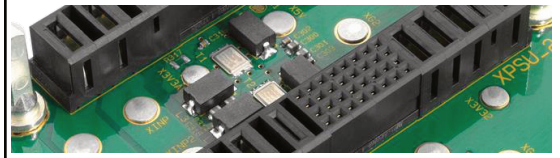
For 6U PSU Plug-In Modules according to VITA 62.0.

(R4, R5, R6, R7, R8, R9, is optional if sense lines cannot be connected)

6U VPX Power BACKPLANE

1 Slot – AC Input Voltage

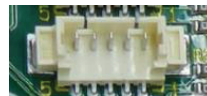
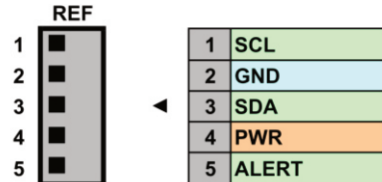
VITA 62



6) IMPB(A+B) I²C Connector

- 1,3: Serial clock and data, IPMBA (SM0,SM1) of VPX
- 4: IPMB-Power is connected at VPX-Backplane
- 5: Not available from PSU

Connector Molex 53398-0571

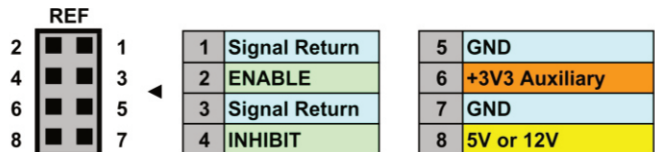


MaČng with:
PicoBlade Cable
Assembly 15134

7) Connector for control of VPX Power Backplane (XCTR)

- 1,3: Return path for signals, grounded on VPX-Backplane
- 2: Enable PSU (in, L)
- 4: Inhibit PSU (in, L)

Connector FCI 95615-008LF

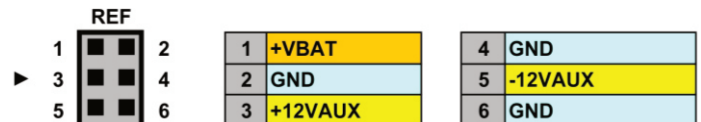


MaČng with:
FCI 90311-008LF

8) Connector for auxiliary voltages (XAUX)

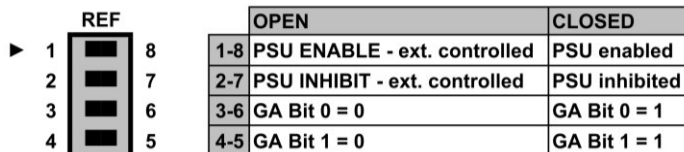
- 1: Auxiliary voltage ~ 3.0 V (2.55-3.5V, for setups, volaČle memories etc.)

Connector FCI 98424-G52-06LF

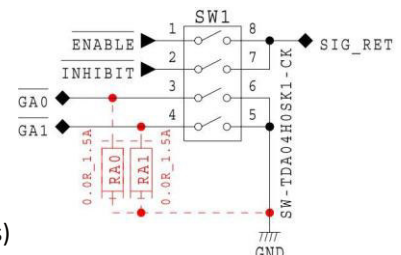


MaČng with:
FCI 90311-006LF

9) Switch SW1 and SW2



(RA0, RA1 resistors are opČonal for fixed geographic address)

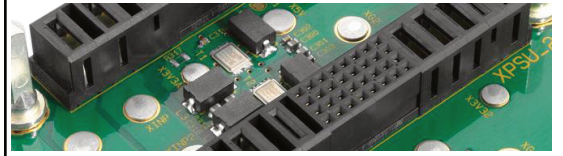


Germany

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6U VPX Power BACKPLANE 1 Slot – DC Input Voltage

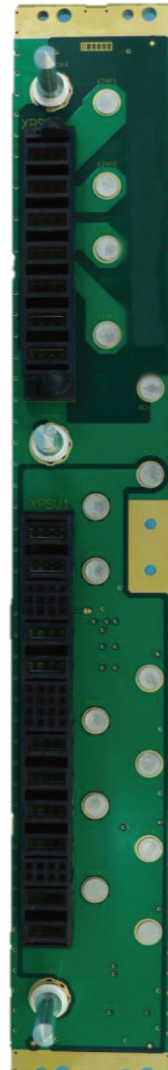
VITA 62



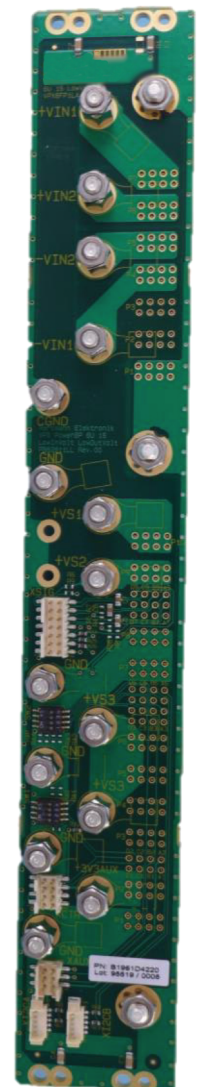
Key Features:

- Compliant to VITA 62 baseline specification
- 1 Slot J0 and J1 Connector
- High input Voltage 18-36VDC
- Max Current 80A
- Max Output Power 1296-2592W (90% eff.)
- M4 studs for VS1, VS2/12V (max. 40A), VS3/5V (max. 80A) and GND (max. 200A)
- PCB size 261.85mm x 38.92mm x 4.3 mm
- Fail, Reset and Sense signals
- Flexible keying and alignment mechanism
- Enable and Inhibit signals accessible
- System Management Interface on the backplane (I2CA, I2CB)
- Compatible to standard VPX 6U DC PSU
- Operating temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability rating: UL94-V0
- Custom assembly or modification on request

Front side

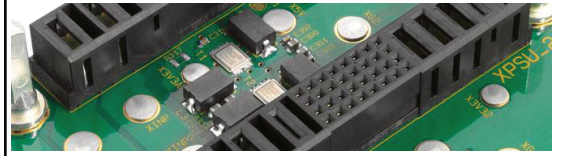


Back side

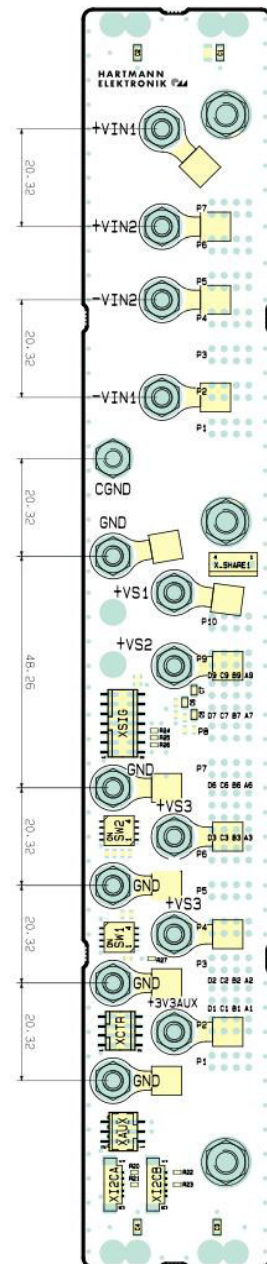
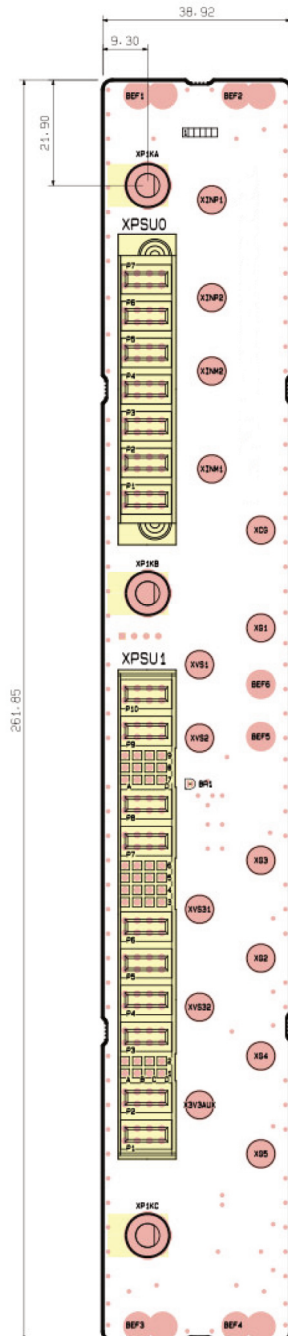


Order number: B1961D4221

VITA 62

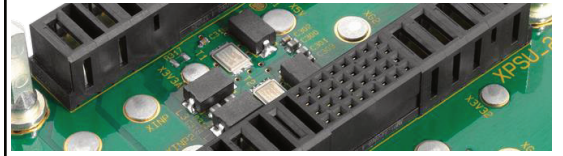


Back side



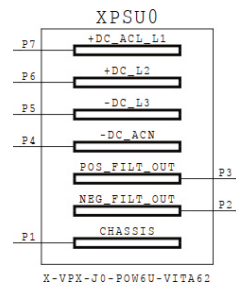
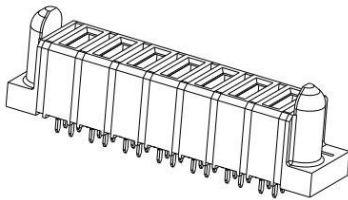
6U VPX Power BACKPLANE 1 Slot – DC Input Voltage

VITA 62

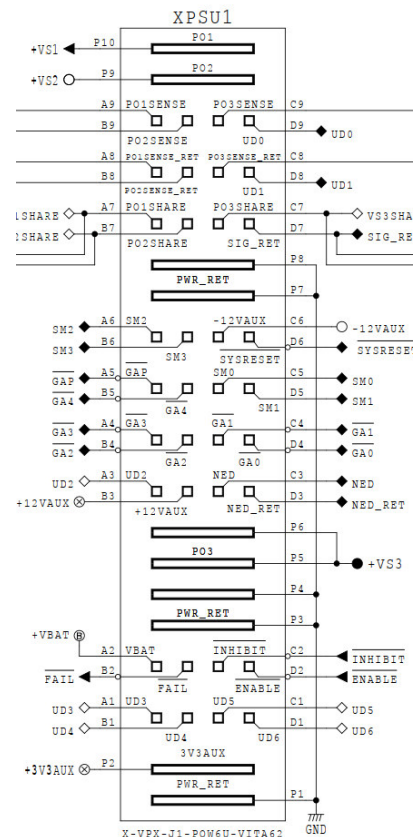
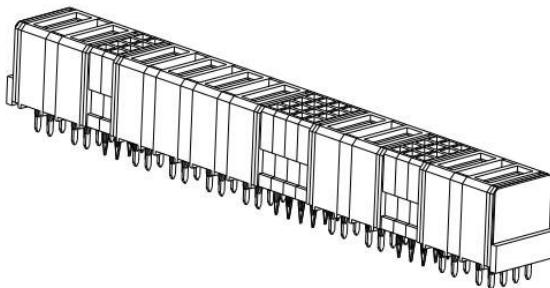


2) Power Connectors

J0 Power Connector (XPSU0)



J1 Power Connector (XPSU1)



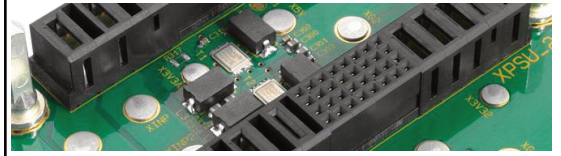
For 6U PSU Plug-In Modules according to VITA 62.0.

(R4, R5, R6, R7, R8, R9, is optional if sense lines cannot be connected)

6U VPX Power BACKPLANE

1 Slot – DC Input Voltage

VITA 62



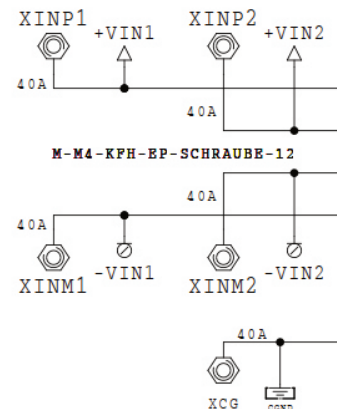
3) Power Input Connector (XIN)

Via M4 studs

2x M4 studs a 40A for DC+

2x M4 studs a 40A for DC-

1x M4 stud for chassis ground



4) Current Capability:

▪ VS1: +12V	40 A
▪ VS3: +5V	80 A
▪ +3.3V AUX	40 A
▪ +/- 12V AUX	2 A

5) Control Signals (Connector XSIG)

1,3: Return path for signals, grounded on VPX-Backplane

2: Failure in PSU (out, L)

4: System Reset (in, L)

5,6: User defined signals - for future use

7,8: Nuclear event detection

10-14: Sense for voltage adjustment

REF			
2	1	1 Signal Return	8 NED
4	3	2 FAIL	9 VS1 Sense Return
6	5	3 Signal Return	10 VS1 Sense
8	7	4 SYSRESET	11 VS2 Sense Return
10	9	5 UD1	12 VS2 Sense
12	11	6 UD0	13 VS3 Sense Return
14	13	7 NED Return	14 VS3 Sense

Connector FCI 95615-014TRLF

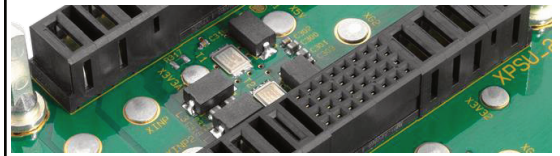


Maßstab mit: VPX Utility Cable such as
Hartmann cable part number F006.04691

6U VPX Power BACKPLANE

1 Slot – DC Input Voltage

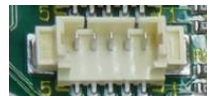
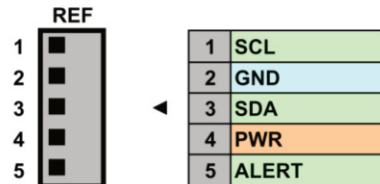
VITA 62



6) IMPB(A+B) I²C Connector

- 1,3: Serial clock and data, IPMBA (SM0,SM1) of VPX
- 4: IPMB-Power is connected at VPX-Backplane
- 5: Not available from PSU

Connector Molex 53398-0571

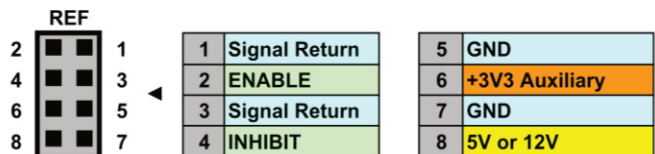


MaÑng with:
PicoBlade Cable
Assembly 15134

7) Connector for control of VPX Power Backplane (XCTR)

- 1,3: Return path for signals, grounded on VPX-Backplane
- 2: Enable PSU (in, L)
- 4: Inhibit PSU (in, L)

Connector FCI 95615-008LF

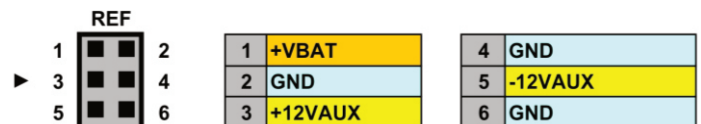


MaÑng with:
??

8) Connector for auxiliary voltages (XAUX)

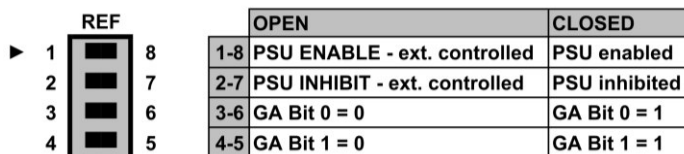
- 1: Auxiliary voltage ~ 3.0 V (2.55-3.5V, for setups, volatile memories etc.)

Connector FCI 98424-G52-06LF

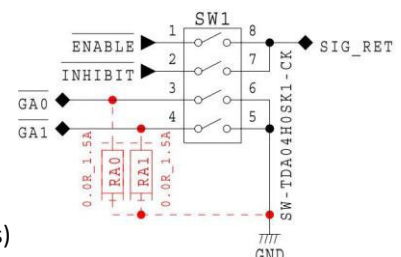


MaÑng with:
??

9) Switch SW1 and SW2



(RA0, RA1 resistors are optional for fixed geographic address)



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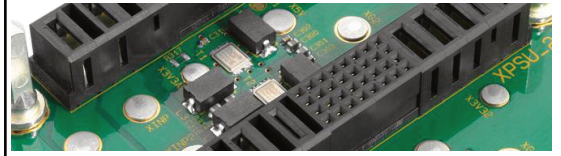
Kontron Modular Computers S.A.S.
Serge Pichat
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Mobile: +33 (0)6 82 62 16 00
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6U VPX Power BACKPLANE 2 Slot – AC Input Voltage

VITA 62



Key Features:

- Compliant to VITA 62 baseline specification
- 2 Slot J0 and J1 Connector
- Input Voltage 85-265VAC
- Max Input Current 2x 15A
- Max Output Power 2430W per slot
- M3 studs for VS1, VS2/12V (max. 140A), VS3/5V (max. 150A) and GND (max. 320A)
- PCB size 261.85mm x 90.07mm x 3.0 mm
- Fail, Reset and Sense signals
- Flexible keying and alignment mechanism
- Enable and Inhibit signals accessible
- System Management Interface on the backplane (I2CA, I2CB)
- Compatible to standard VPX 6U AC PSU, such as the Hartmann 1000W AC Power Supply part num. D575.01000
- Operating temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability rating: UL94-V0
- Custom assembly or modification on request

Front side

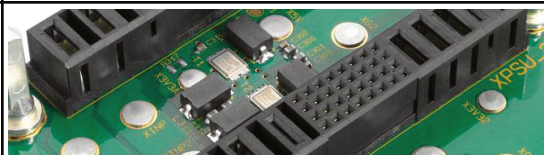


Back side

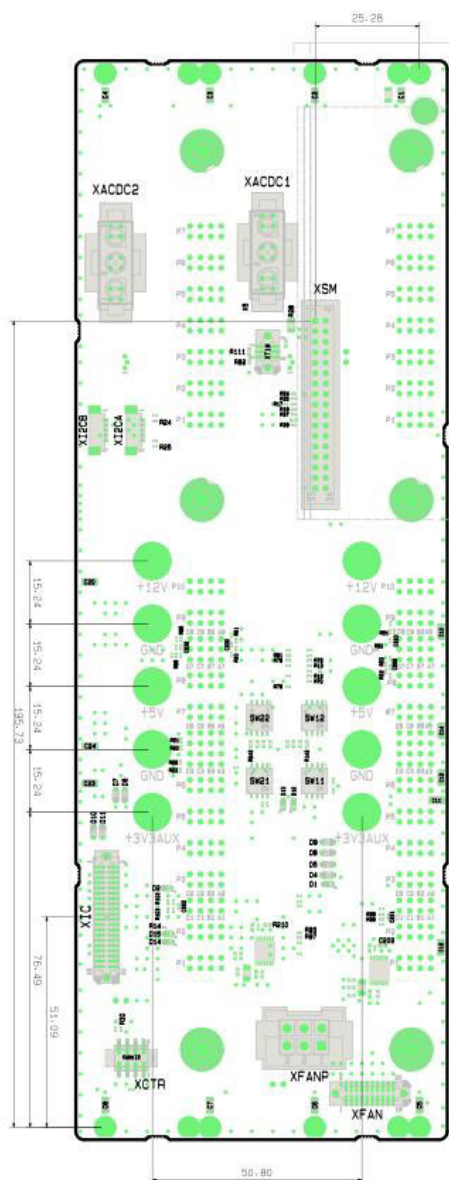
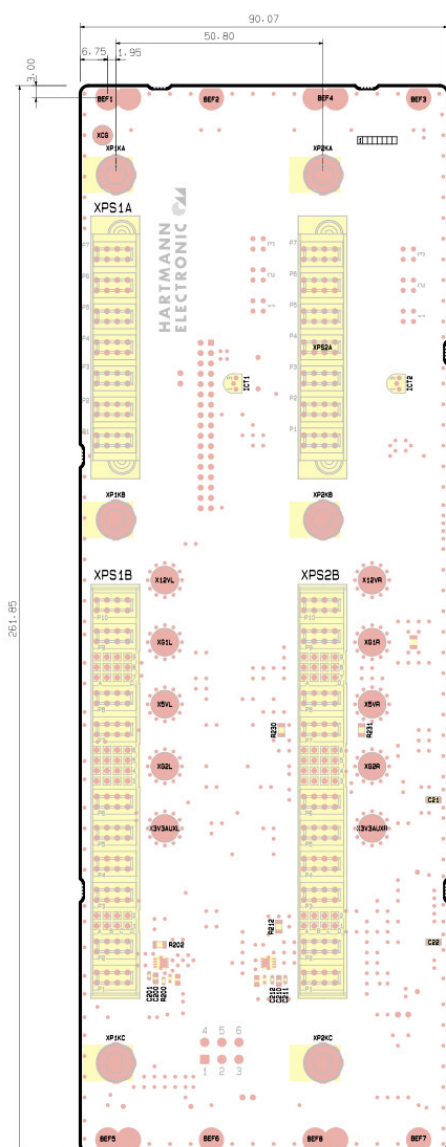


Order number: B1962AM220

VITA 62

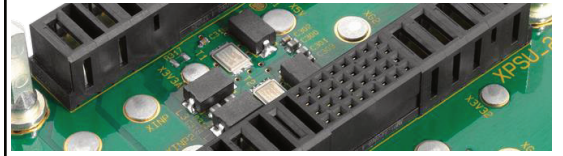


Back side



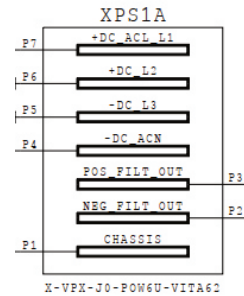
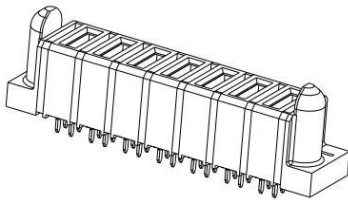
6U VPX Power BACKPLANE 2 Slot – AC Input Voltage

VITA 62

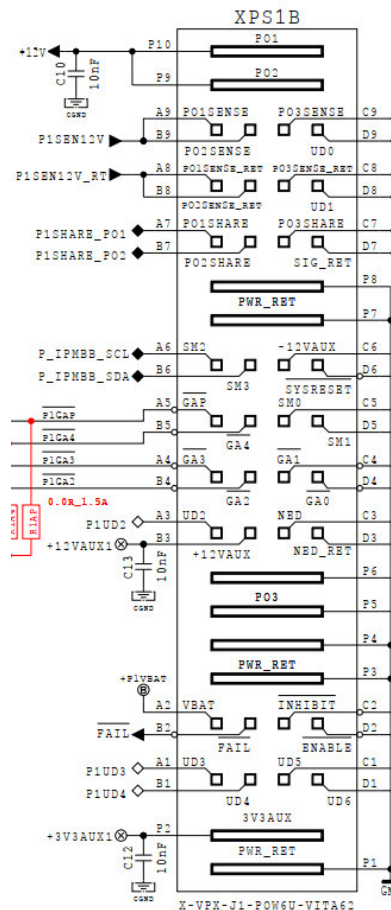
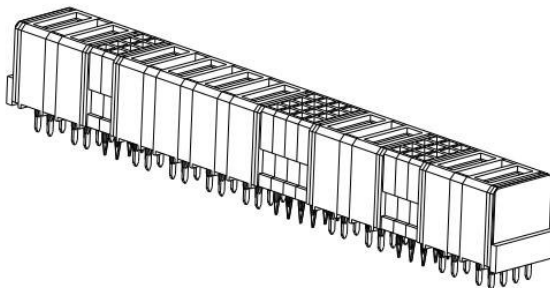


2) Power Connectors

J0 Power Connector (XPSU0)



J1 Power Connector (XPSU1)

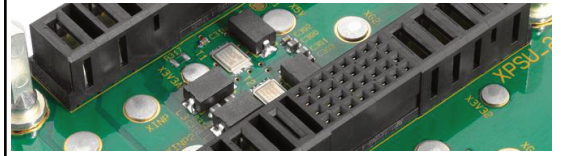


For 6U PSU Plug-In Modules according to VITA 62.0.

(R4, R5, R6, R7, R8, R9, is optional if sense lines cannot be connected)

6U VPX Power BACKPLANE 2 Slot – AC Input Voltage

VITA 62



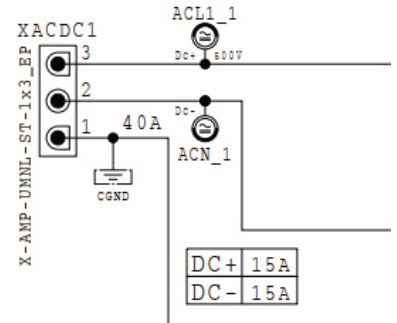
3) Power Input Connector (XIN)

2x 3 Pin Mate-N-Lok Connector for AC.

1: CASE GND

2, 3: Input voltage 85-265V (AC)

Connector Tyco 173925-1

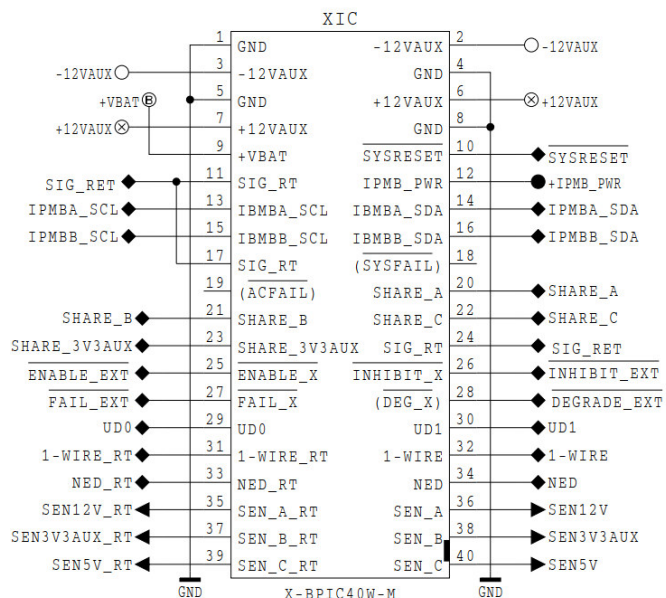
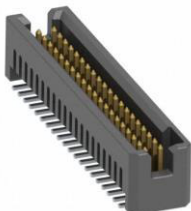


4) Current Capability:

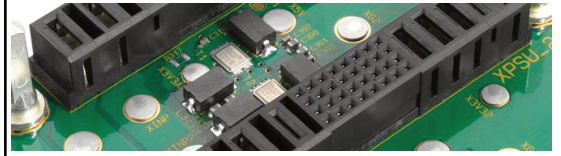
▪ VS1, VS2: +12V	140 A
▪ VS3: +5V	150 A
▪ +3.3V AUX	70 A
▪ +/- 12V AUX	4 A

5) Control Signals (Connector XSIG)

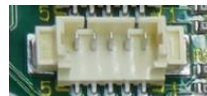
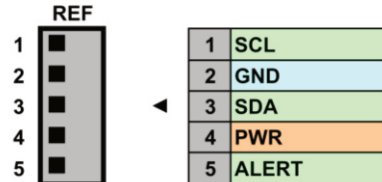
Connector Samtec TFM-120-02-L-D-P



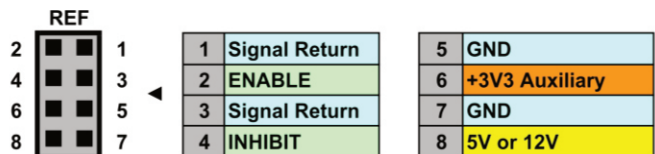
VITA 62



Connector Molex 53398-0571

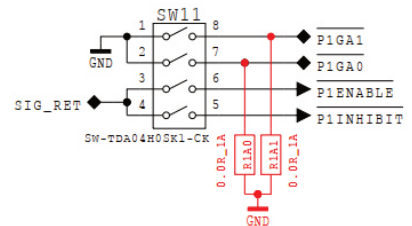


Connector FCI 95615-008LF



The diagram shows a 4-pin connector labeled REF. The pins are numbered 1 to 4 on the left and 8 to 5 on the right. The pins are connected to a common ground (GND) on the right. The signals for each pin are as follows:

Pin	Signal
1	OPEN
2	GA Bit 1 = 0
3	GA Bit 0 = 0
4	PSU ENABLE – ext. Controlled
8	CLOSED
7	GA Bit 1 = 1
6	GA Bit 0 = 1
5	PSU INHIBIT – ext. Controlled



Page 5 of 5