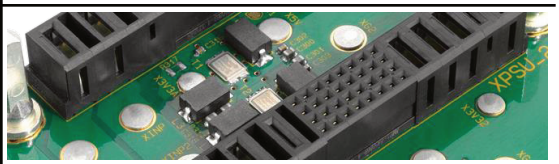
6U VPX Power BACKPLANE **1 Slot – AC Input Voltage**	**VITA 62**	

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 accesible
- 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

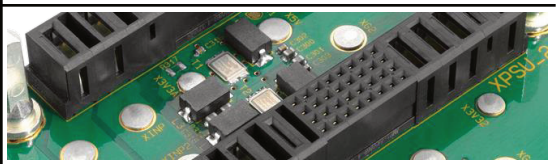
Front side



Back side

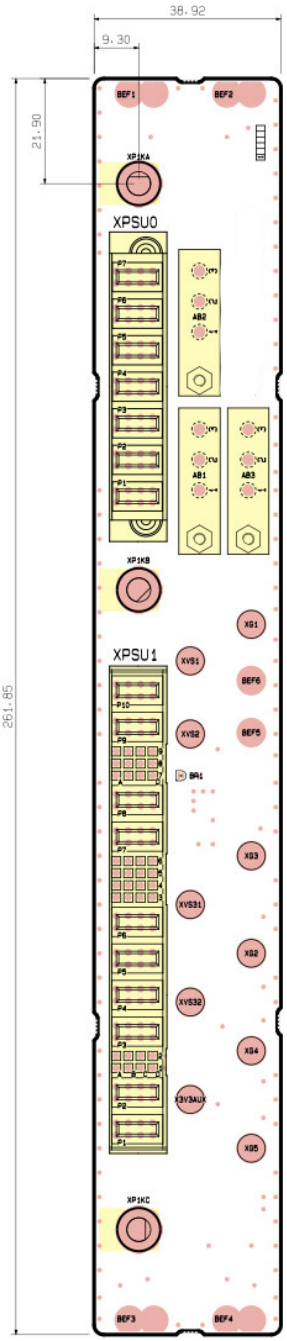


Order number: B1961AM220

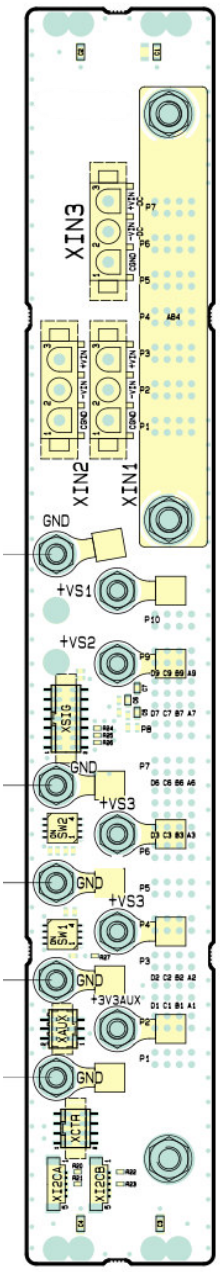
6U VPX Power BACKPLANE **1 Slot – AC Input Voltage**	**VITA 62**	

1) Drawings

Front side

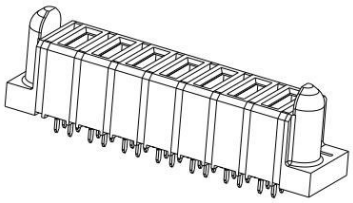


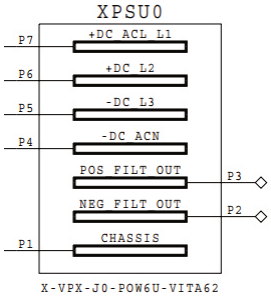
Back side



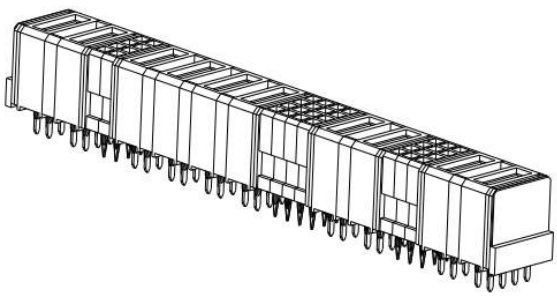
2) Power Connectors

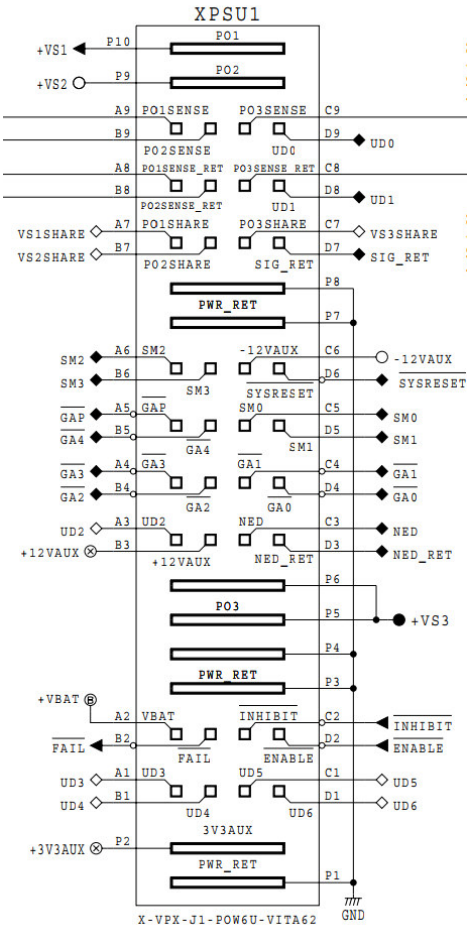
J0 Power Connector (XPSU0)





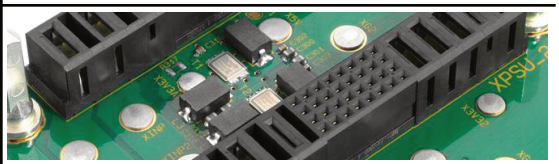
J1 Power Connector (XPSU1)





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**	

3) Power Input Connector (XIN)

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

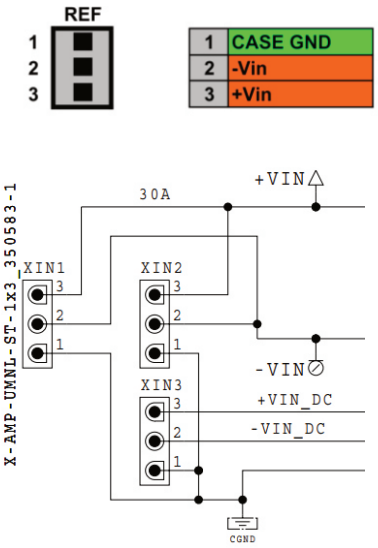
1: CASE GND

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

Connector AMP 350429-1



Mating with:
TE 1586849-1



1	CASE GND
2	-Vin
3	+Vin

4) Current Capability:

▪ VS1, VS2: +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)

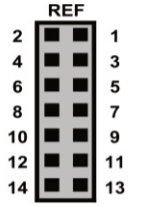
4: System Reset (in, L)

5,6: User defined signals - for future use

7,8: Nuclear event detection

10-14: Sense for voltage adjustment

Connector FCI 95615-014TRLF

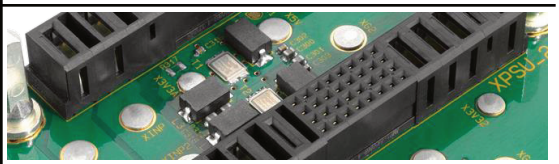


1	Signal Return
2	FAIL
3	Signal Return
4	SYSRESET
5	UD1
6	UD0
7	NED Return

8	NED
9	VS1 Sense Return
10	VS1 Sense
11	VS2 Sense Return
12	VS2 Sense
13	VS3 Sense Return
14	VS3 Sense



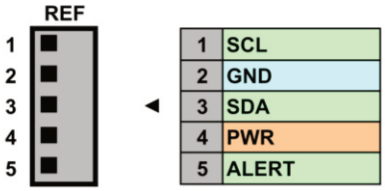
Mating with: VPX Utility Cable such as
Hartmann cable part number F006.04691

6U VPX Power BACKPLANE **1 Slot – AC Input Voltage**	**VITA 62**	

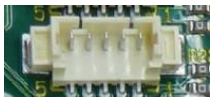
6) IMPB(A+B) I²C Connector

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



1	SCL
2	GND
3	SDA
4	PWR
5	ALERT

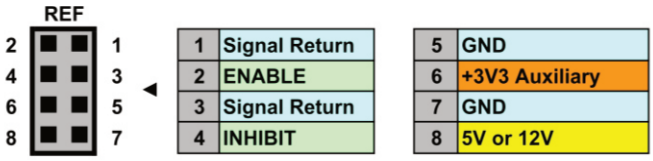


Mating with:
PicoBlade Cable
Assembly 15134

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



1	Signal Return
2	ENABLE
3	Signal Return
4	INHIBIT

5	GND
6	+3V3 Auxiliary
7	GND
8	5V or 12V

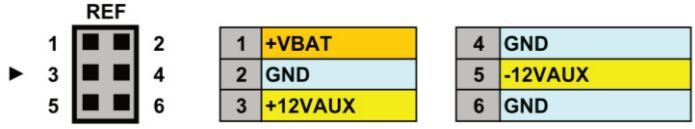


Mating with:
FCI 90311-008LF

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



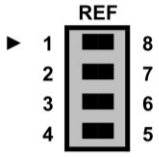
1	+VBAT
2	GND
3	+12VAUX

4	GND
5	-12VAUX
6	GND

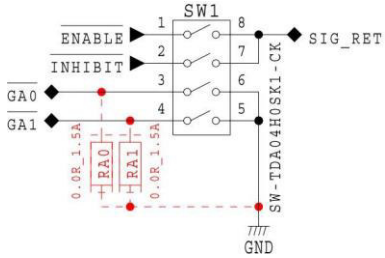


Mating with:
FCI 90311-006LF

9) Switch SW1 and SW2



	OPEN	CLOSED
1-8	PSU ENABLE - ext. controlled	PSU enabled
2-7	PSU INHIBIT - ext. controlled	PSU inhibited
3-6	GA Bit 0 = 0	GA Bit 0 = 1
4-5	GA Bit 1 = 0	GA Bit 1 = 1



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

All data is for information purposes only and not guaranteed for legal purposes. Information has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Specifications are subject to change without notice.