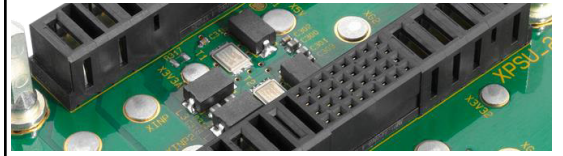


6U VPX Power BACKPLANE
1 Slot – AC Input Voltage

VITA 62



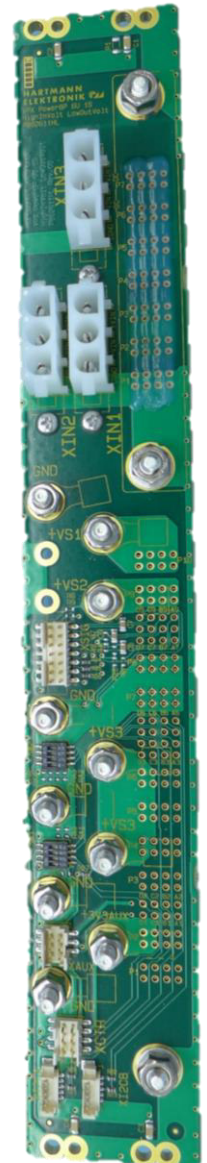
Key Features:

- 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



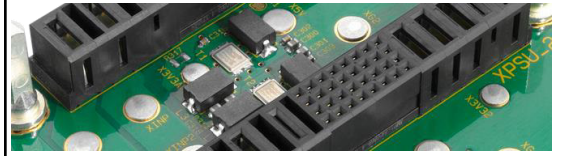
Back side



Order number: B1961AM220

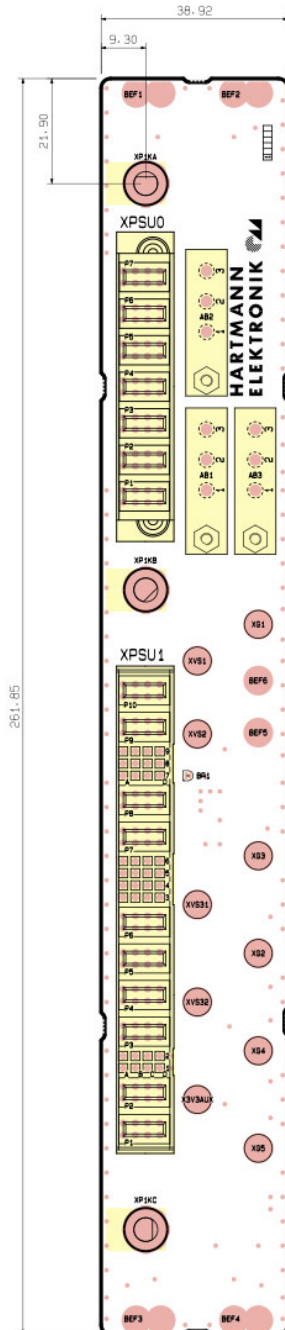
6U VPX Power BACKPLANE
1 Slot – AC Input Voltage

VITA 62

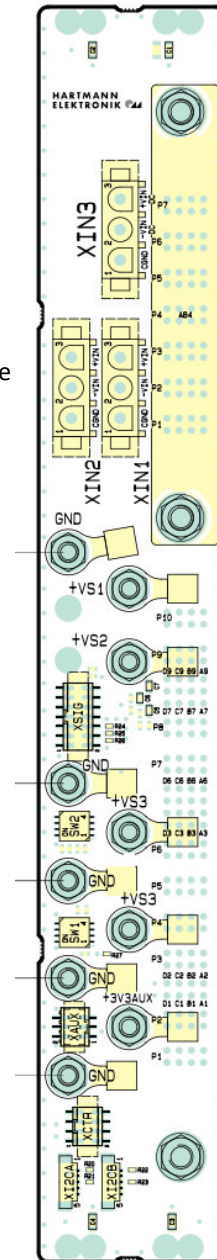


1) Drawings

Front side

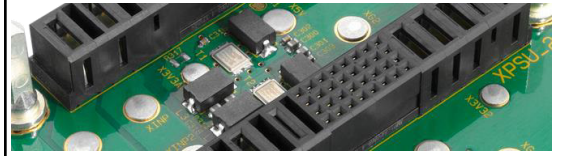


Back side



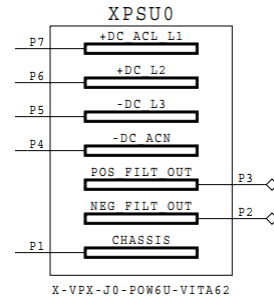
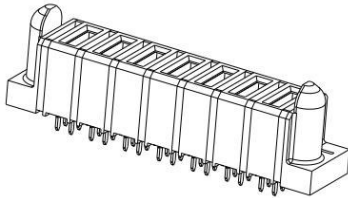
6U VPX Power BACKPLANE 1 Slot – AC Input Voltage

VITA 62

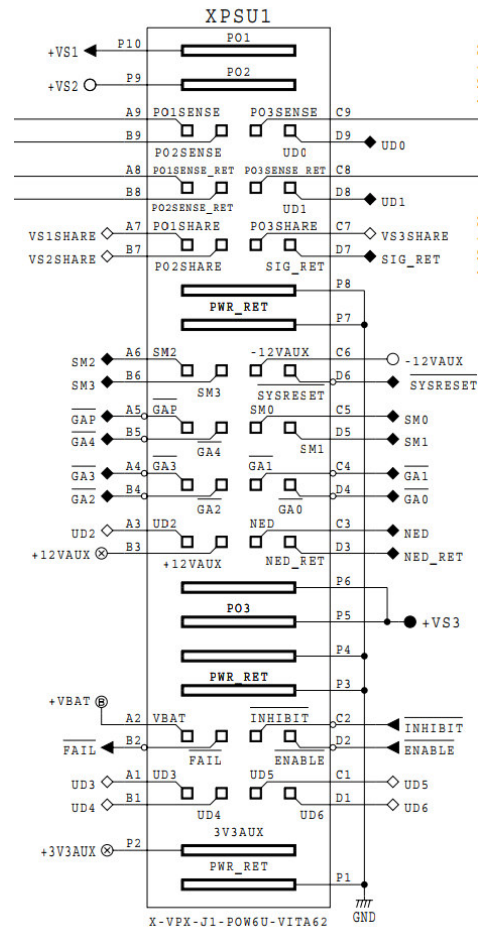
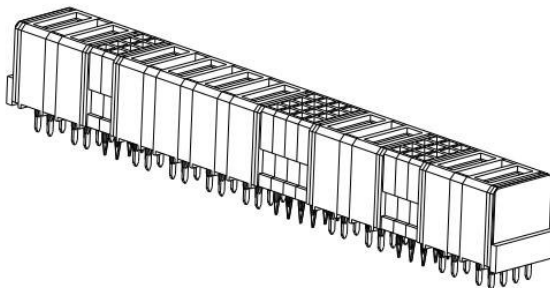


2) Power Connectors

J0 Power Connector (XPSU0)



J1 Power Connector (XPSU1)



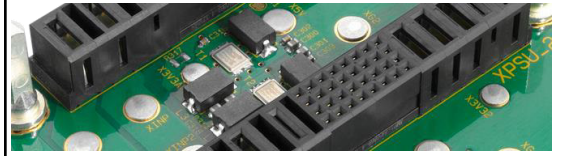
For 6U PSU Plug-In Modules according to VITA 62.0.

(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



3) Power Input Connector (XIN)

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

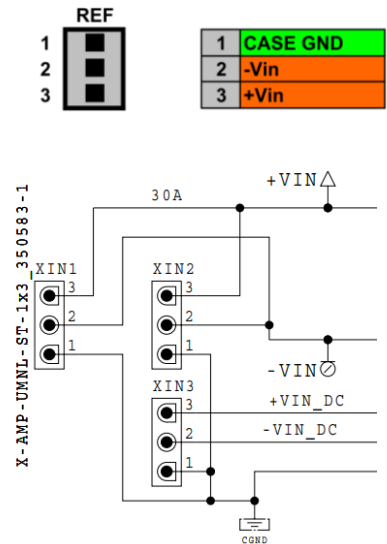
1: CASE GND

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

Connector AMP 350429-1



Mating with:
TE 1586849-1



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

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

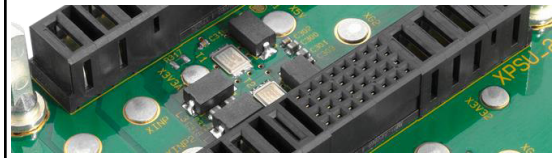


Mating with: VPX Utility Cable such as
Hartmann cable part number F006.04691

6U VPX Power BACKPLANE

1 Slot – AC Input Voltage

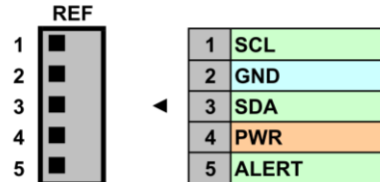
VITA 62



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

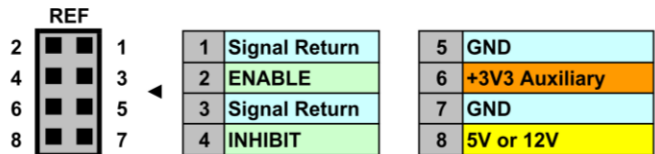


Mating with:
PicoBlade Cable
Assembly 15134

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

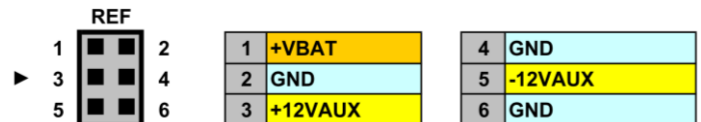


Mating with:
FCI 90311-008LF

8) Connector for auxiliary voltages (XAUX)

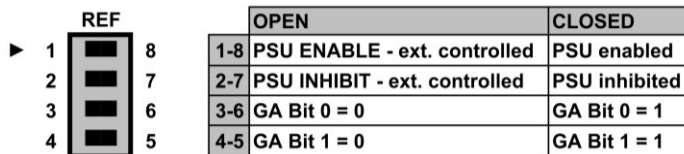
- 1: Auxiliary voltage ~ 3.0 V (2.55-3.5V, for setups, volatile memories etc.)

Connector FCI 98424-G52-06LF

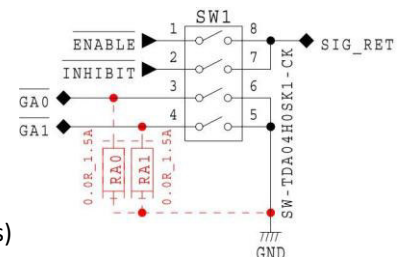


Mating with:
FCI 90311-006LF

9) Switch SW1 and SW2



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



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