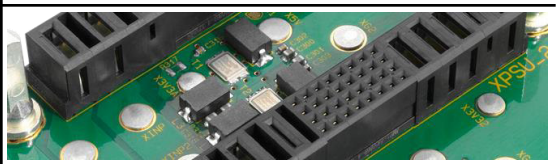
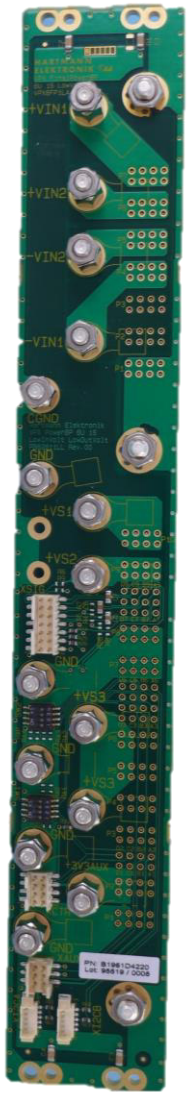
6U VPX Power BACKPLANE **1 Slot – DC Input Voltage**	**VITA 62**	

Key Features:

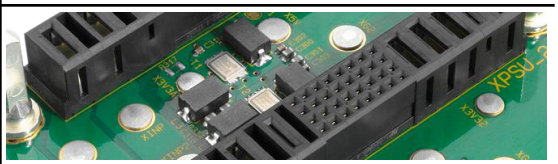
- Compliant to VITA 62 baseline specification
- 1 Slot J0 and J1 Connector
- High input Voltage 18-36VDC
- Max Current 80A
- Max Output Power 1296-2592W (90% eff.)
- M4 studs for VS1, VS2/12V (max. 40A), VS3/5V (max. 80A) and GND (max. 200A)
- PCB size 261.85mm x 38.92mm x 4.3 mm
- Fail, Reset and Sense signals
- Flexible keying and alignment mechanism
- Enable and Inhibit signals accesible
- 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

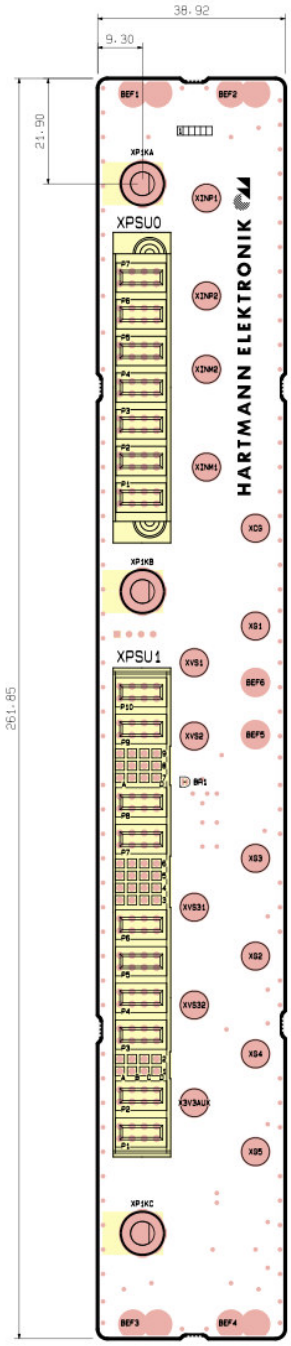


Order number: B1961D4221

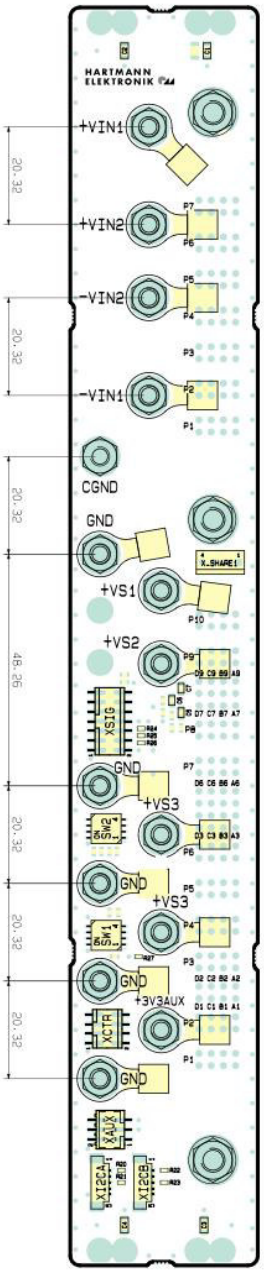
6U VPX Power BACKPLANE **1 Slot – DC Input Voltage**	**VITA 62**	

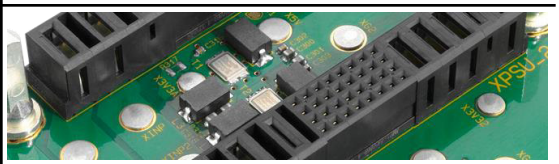
1) Drawings

Front side



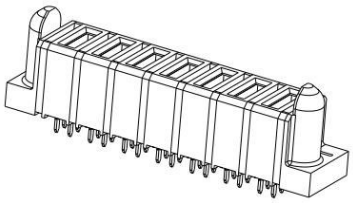
Back side

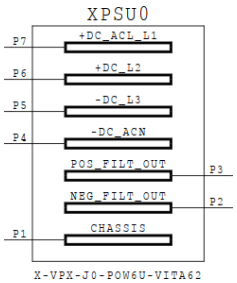


6U VPX Power BACKPLANE **1 Slot – DC Input Voltage**	**VITA 62**	

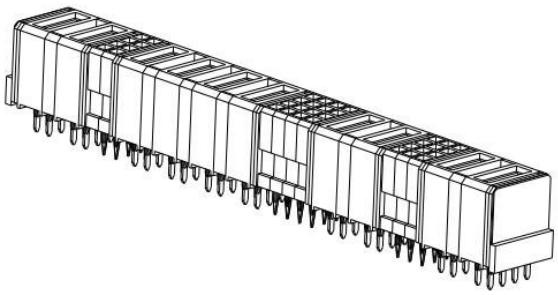
2) Power Connectors

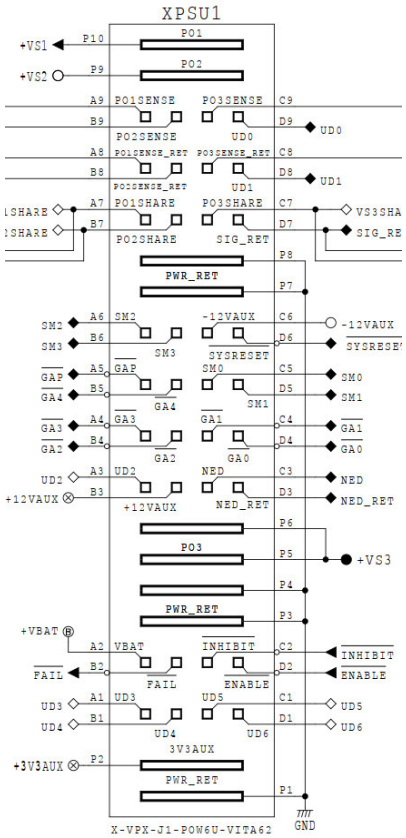
J0 Power Connector (XPSU0)





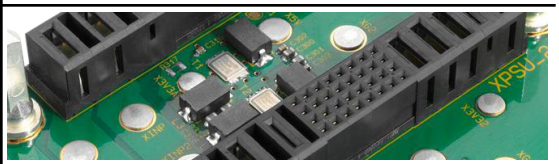
J1 Power Connector (XPSU1)





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**	

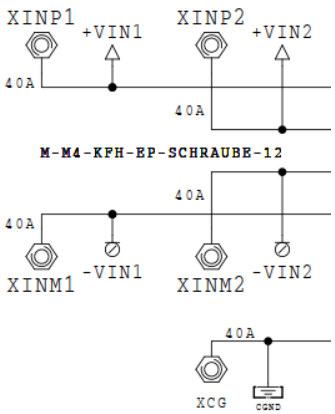
3) Power Input Connector (XIN)

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

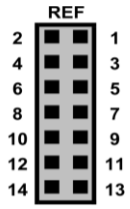
2: Failure in PSU (out, L)

4: System Reset (in, L)

5,6: User defined signals - for future use

7,8: Nuclear event detection

10-14: Sense for voltage adjustment

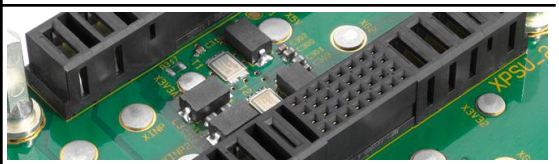


1	Signal Return
2	FAIL
3	Signal Return
4	SYSRESET
5	UD1
6	UD0
7	NED Return

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

Connector FCI 95615-014TRLF

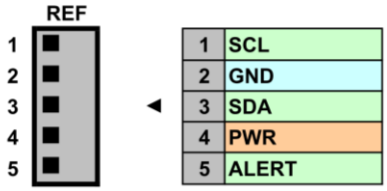
Mating with: VPX Utility Cable such as
Hartmann cable part number F006.04691

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

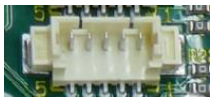
6) IMPB(A+B) I²C Connector

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



1	SCL
2	GND
3	SDA
4	PWR
5	ALERT

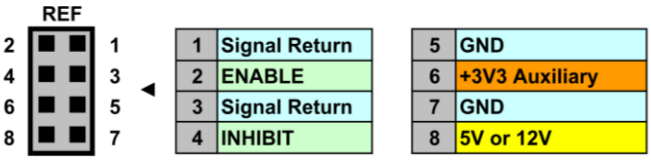


Mating with:
PicoBlade Cable
Assembly 15134

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

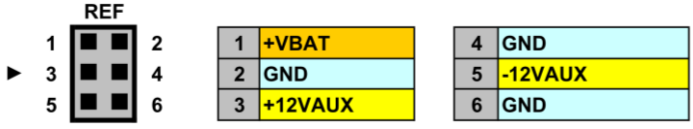
5	GND
6	+3V3 Auxiliary
7	GND
8	5V or 12V

Mating with:
??

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

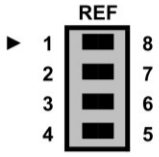


1	+VBAT
2	GND
3	+12VAUX

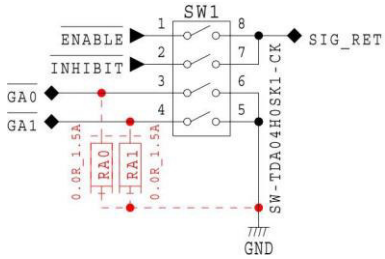
4	GND
5	-12VAUX
6	GND

Mating with:
??

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)

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