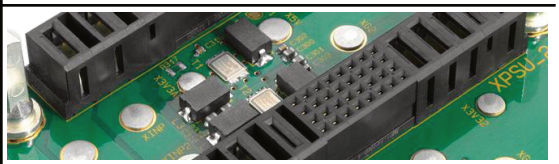
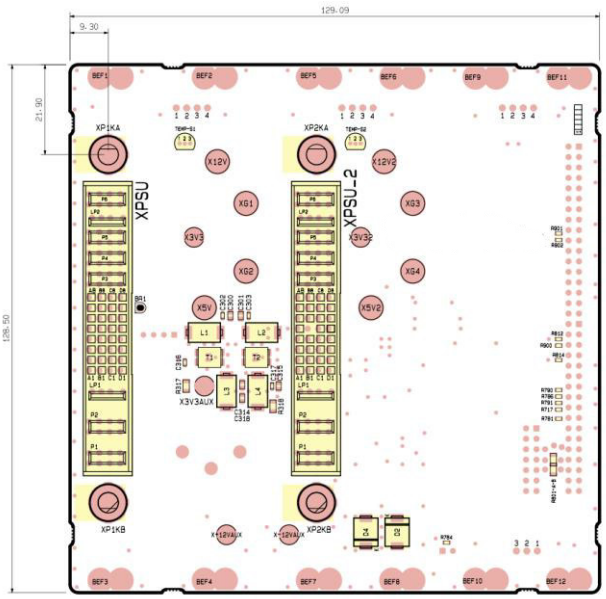
3U VPX Power BACKPLANE **2 Slot – AC Input Voltage**	**VITA 62**	

Key Features:

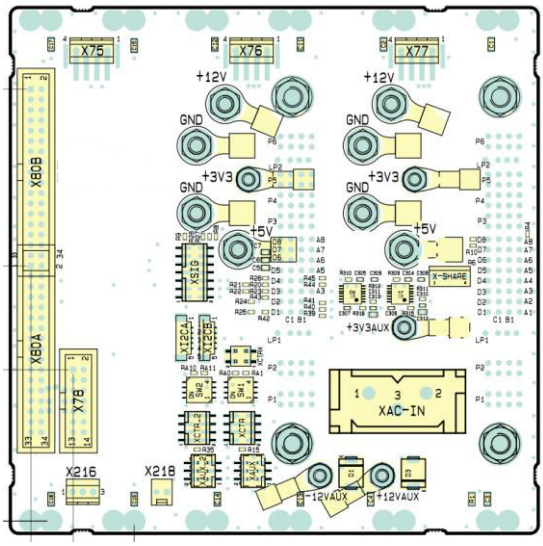
- Compliant to VITA 62 baseline specification
- 2 Slot 3U J0 Connector
- Input Voltage 85-265VAC
- Max Input Current 17A per Slot
- M4 studs for VS1/12V (max. 80A) and GND (max. 160A)
  M3 studs for VS2/3.3V (max. 40A), VS3/5V (max. 80A)
- PCB size 128.50mm x 129.09mm x 5.4 mm
- Fail, Reset and Sense signals
- Flexible keying and alignment mechanism
- Enable and Inhibit signals accesible
- System Management Interface on the backplane (I2CA, I2CB)
- Compatible to standard VPX 3U AC PSU, such as the Hartmann 600W AC Power Supply p/n D575.00646
- Can be used with Shelfmanagers, such as the Hartmann Shelfmanager part num. 1H00004161
- Operating temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability rating: UL94-V0
- Custom assembly or modification on request

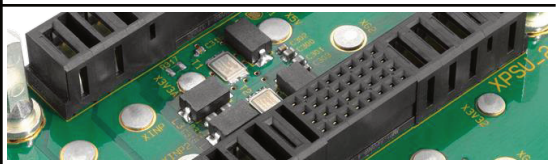
- **Order number: 2.H0002051**

Front side



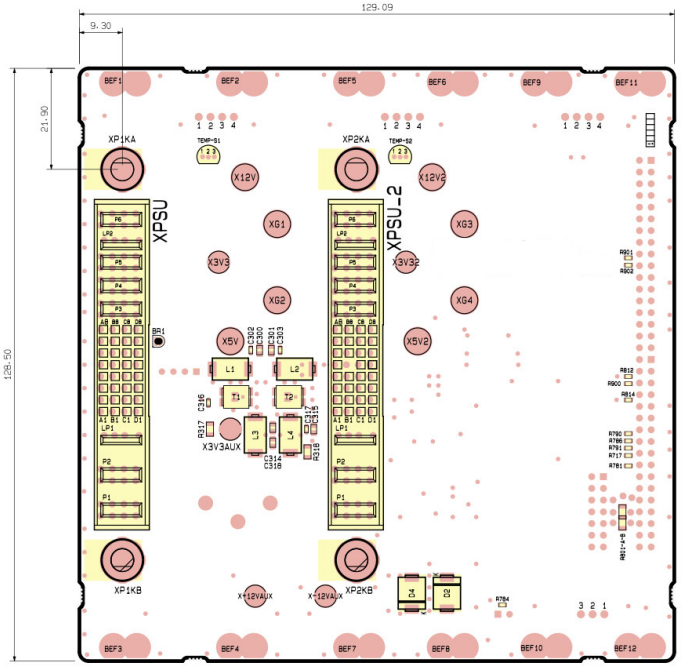
Back side



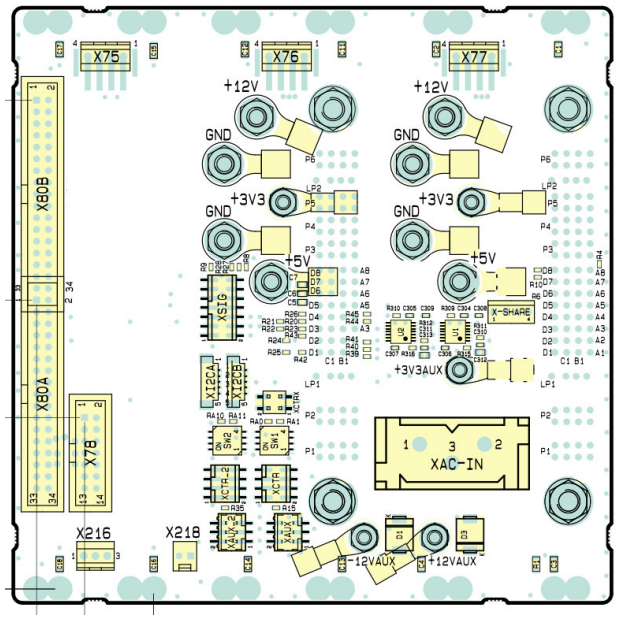
3U VPX Power BACKPLANE **2 Slot – AC Input Voltage**	**VITA 62**	

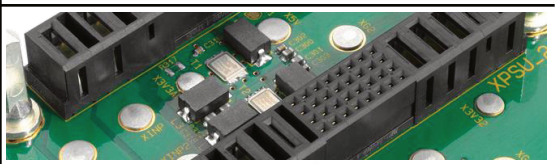
1) Drawings

Front side

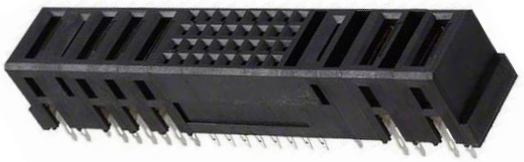


Back side



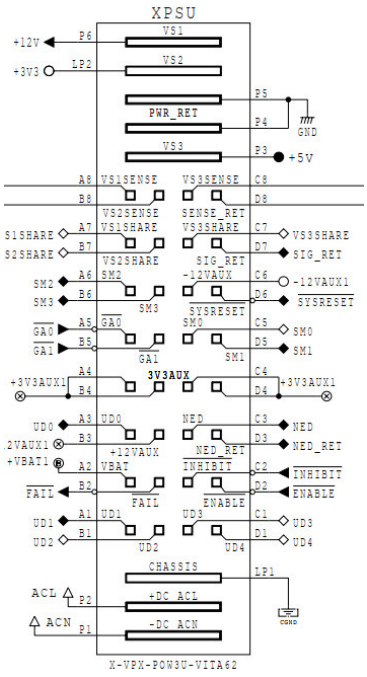
3U VPX Power BACKPLANE **2 Slot – AC Input Voltage**	**VITA 62**	

2) J0 Power Connector (XPSU)

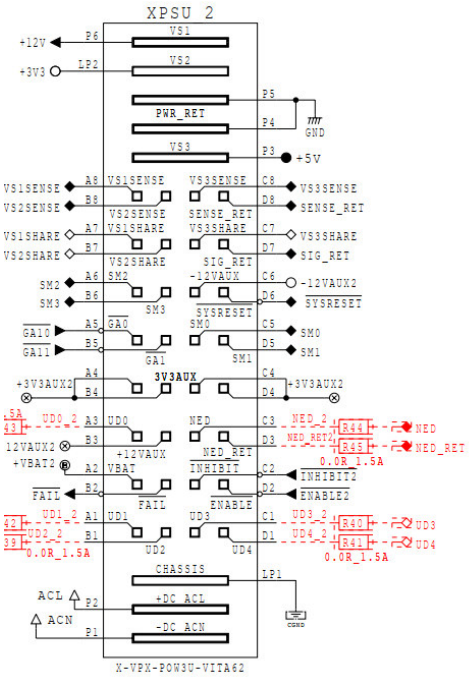


For 3U PSU Plug-In Modules according to VITA 62.0.

Connector Tyco 1-6450869-4



Connector 1



Connector 2

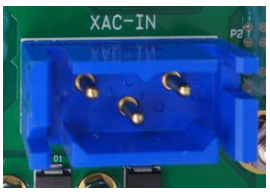
3) Power Input Connector (XIN)

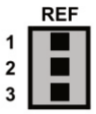
3 Pin Connector.

1: CASE GND

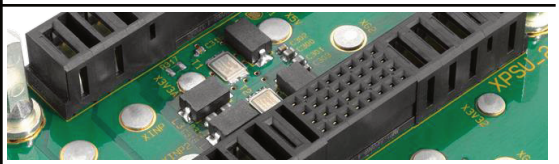
2, 3: Input voltage 36-500V (AC)

Connector Positronic PLBH3W3M93ST30A1





1	CASE GND
2	-Vin
3	+Vin

3U VPX Power BACKPLANE **2 Slot – AC Input Voltage**	**VITA 62**	

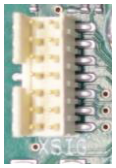
4) Current Capability:

▪ VS1: +12V	80 A
▪ VS2: +3.3V	40 A
▪ VS3: +5V	80 A
▪ +3.3V AUX	12 A
▪ +/- 12V AUX	3 A

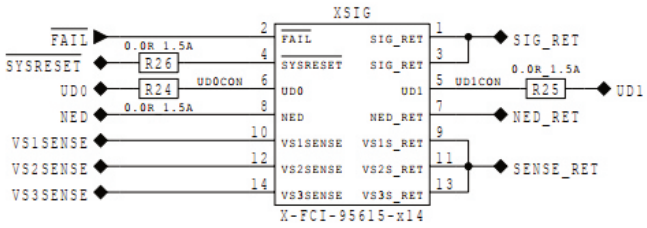
5) Utility (XSIG)

Special signals like sense signals for connection to the power supply are at the connector XSIG.

Connector Connector FCI/Berg 95615-014TRLF



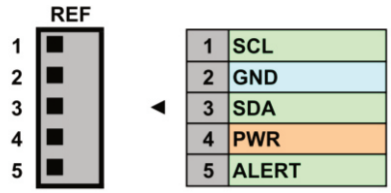
Mating with:
Hartmann F006.00450



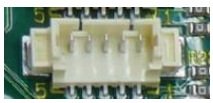
6) IMPB(A+B) I²C Connector

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

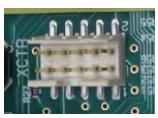


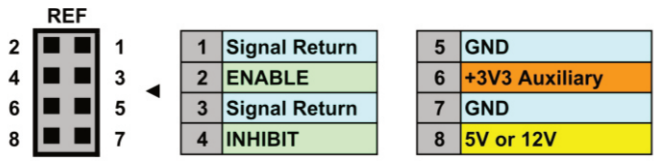
Mating with:
PicoBlade Cable
Assembly 15134

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)

Two Connectors FCI 95615-008LF





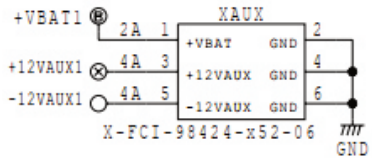
1	Signal Return
2	ENABLE
3	Signal Return
4	INHIBIT

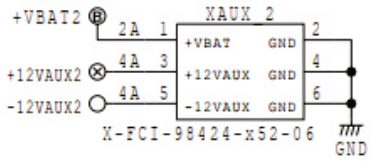
5	GND
6	+3V3 Auxiliary
7	GND
8	5V or 12V

8) Connector for auxiliary voltages (XAUX)

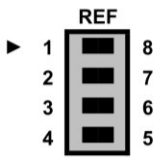
1: Auxiliary voltage ~ 3.0 V (2.55-3.5V, for setups, volatile memories etc.)

Connector FCI 98424-G52-06LF

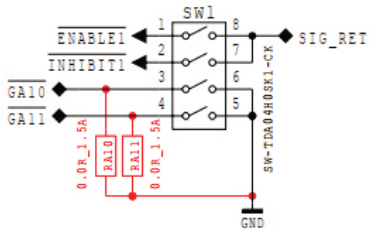




9) Switch SW1, SW2

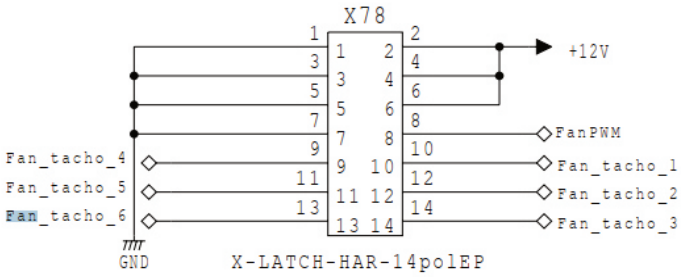


	OPEN	CLOSED
1-8	PSU ENABLE - ext. controlled	PSU enabled
2-7	PSU INHIBIT - ext. controlled	PSU inhibited
3-6	GA Bit 0 = 0	GA Bit 0 = 1
4-5	GA Bit 1 = 0	GA Bit 1 = 1

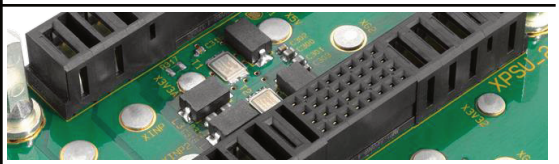


10) Connector Fans (XFAN)

1	GND
2	Fan_Power
3	GND
4	Fan_Power
5	GND
6	Fan_Power
7	GND
8	Fan_PWM
9	Fan_TACHO-4
10	Fan_TACHO-1
11	Fan_TACHO-5
12	Fan_TACHO-2
13	Fan_TACHO-6
14	Fan_TACHO-3



Connector FCI95615-014TRLF

3U VPX Power BACKPLANE **2 Slot – AC Input Voltage**	**VITA 62**	

11) Connector Shelfmanager (XSM)

1	+5V STDBY	2	+5VMON
3	+5V	4	+3V3MON
5	ACFAIL	6	-12VMON
7	SYSFAIL	8	+12VMON
9	SYSRESET	10	GND
11	Fan_PWM	12	I2C_SCL
13	1-Wire-TSENSE	14	I2C_SDA
15	DEG1	16	DEG2
17	FAIL1	18	FAIL2
19	ENABLE1	20	ENABLE2
21	Fan_tacho_1	22	Fan_tacho_4
23	Fan_tacho_2	24	Fan_tacho_5
25	Fan_tacho_3	26	Fan_tacho_6
27	12V Fan_supply	28	12V Fan_supply
29	FANREG	30	FANREG
31	GND	32	GND
33	GND	34	GND

Connector Harting
09185346329



For connection with Shelfmanagers, such as the Hartmann Shelf-manager part num. 1H00004161

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.