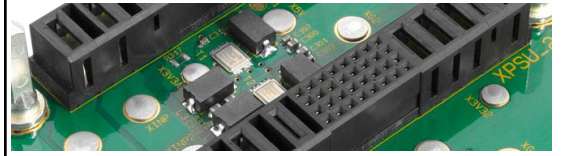


3U VPX Power BACKPLANE

3 Slot – AC Input Voltage

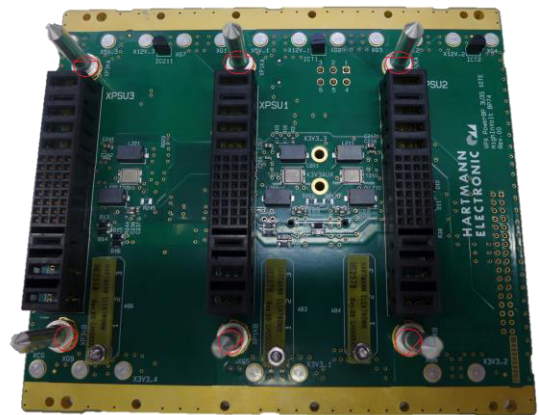
VITA 62



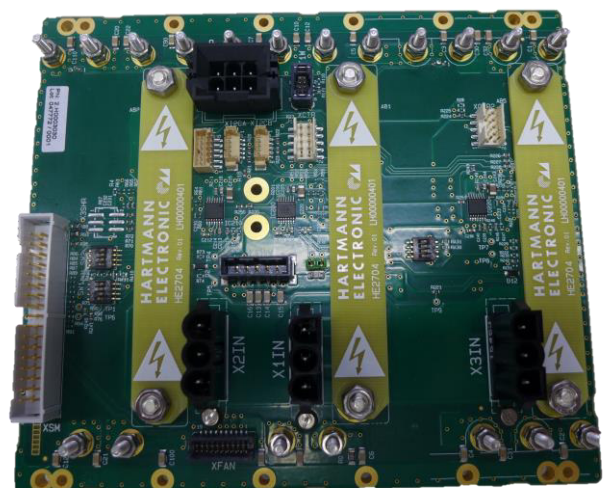
Key Features:

- Compliant to VITA 62 baseline specification
- 3 Slot 3U J0 Connector
- Input Voltage 85-265VAC
- Max Input Current 19A per Slot
- M3 studs for VS1/12V (max. 80A), VS2/3.3V (max. 40A), VS3/5V (max. 80A), and GND (max. 160A)
- PCB size 128.50mm x 148.00mm 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.H0003030

Front side

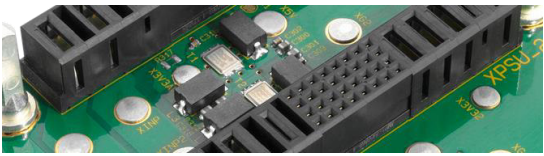


Back side



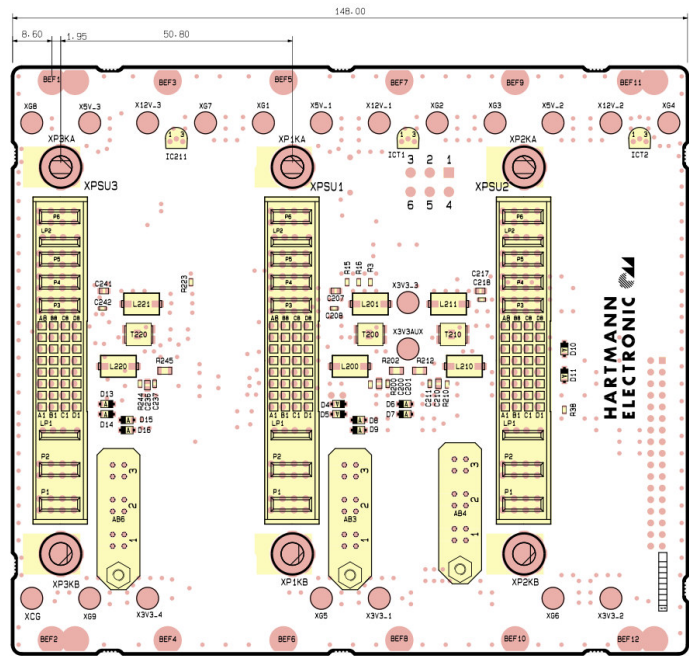
3U VPX Power BACKPLANE
3 Slot – AC Input Voltage

VITA 62

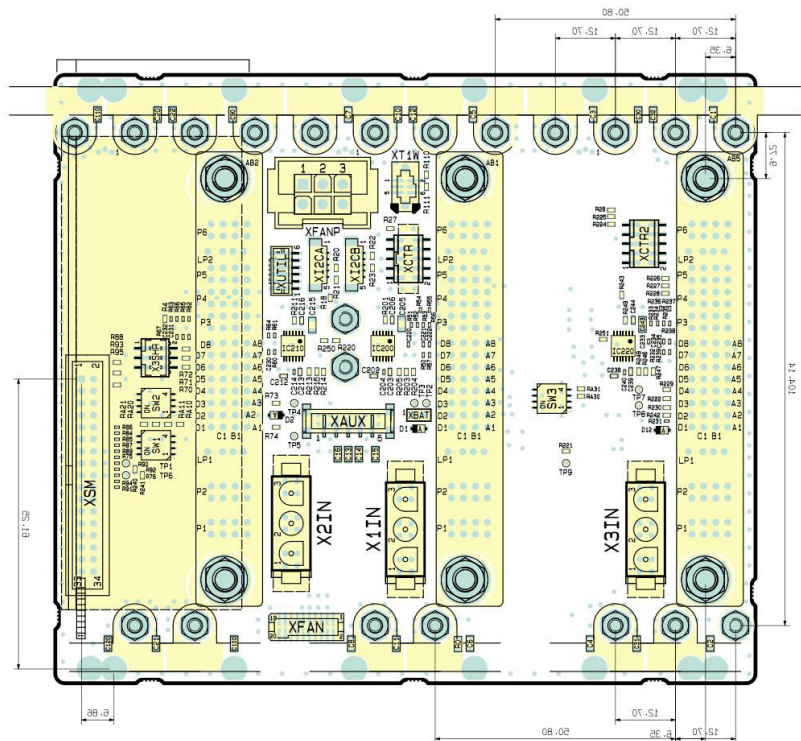


1) Drawings

Front side



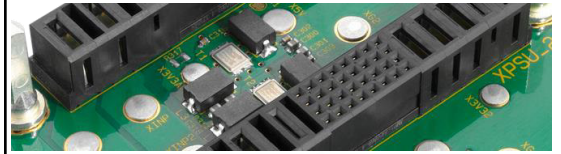
Back side



3U VPX Power BACKPLANE

3 Slot – AC Input Voltage

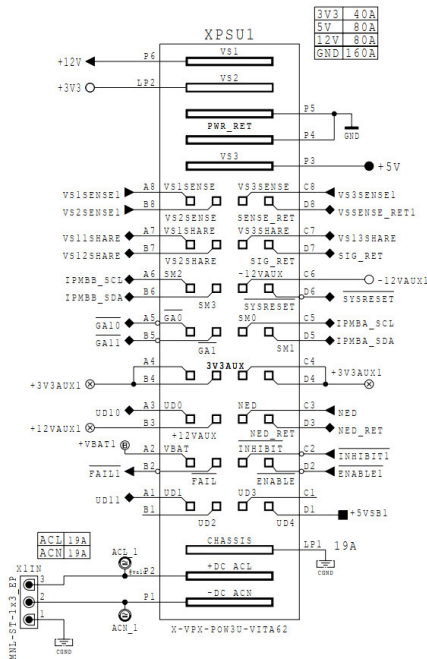
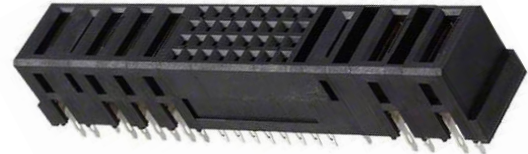
VITA 62



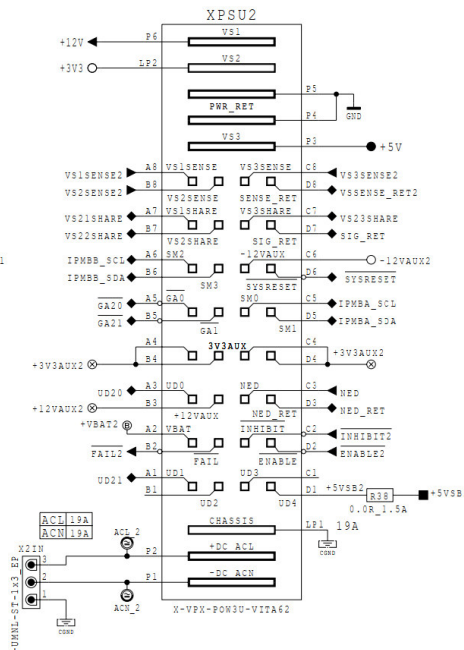
2) J0 Power Connector (XPSU)

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

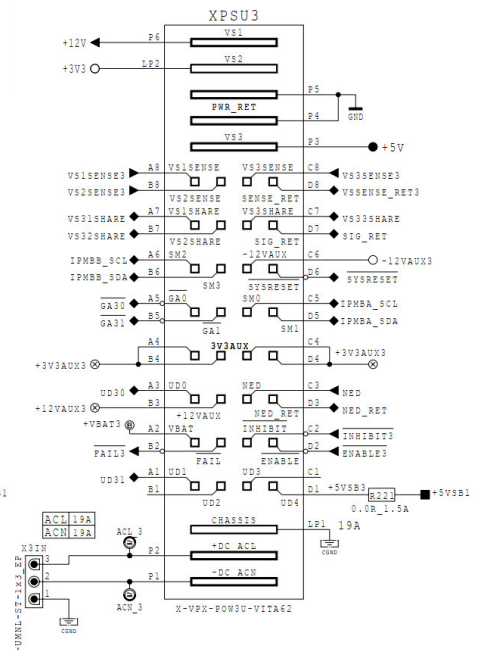
Connector Tyco 1-6450869-4



Connector 1



Connector 2



Connector 3

3) Power Input Connector (XIN)

3 Pin Mate-N-Lok Connector.

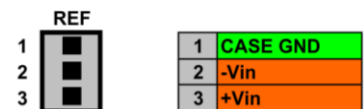
1: CASE GND

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

Three Connectors Tyco 173925-1

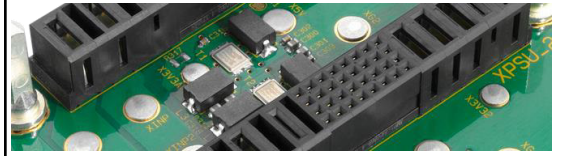


Mating with:
TE 1-480700-0



3U VPX Power BACKPLANE 3 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

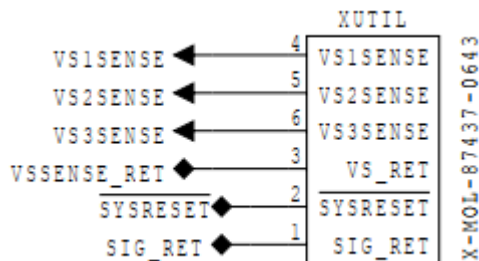
5) Utility

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

Connector Molex 87437-0643



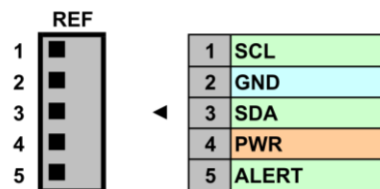
Mating with:
Pico-SPOX Wire-
to-Board Housing
87439



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

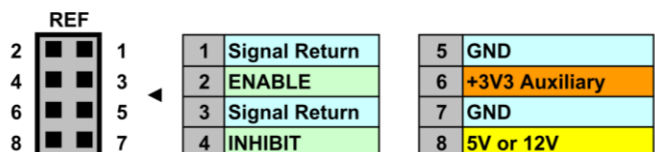
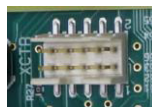


Mating with:
PicoBlade Cable
Assembly 15134

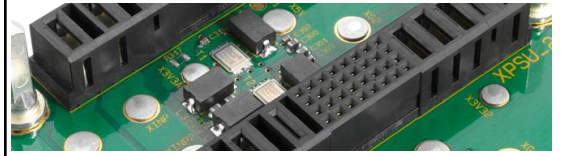
7) Connector for control of VPX Power Backplane (XCTR)

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

Two Connectors FCI 95615-010TRLF



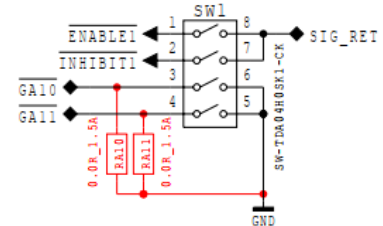
VITA 62



Connector Erni 254831



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



1	+3V3
3	GND
5	1-Wire RT
7	Fan tachometer 1
9	Fan tachometer 2
11	Fan tachometer 3
13	GND
15	Fan_tachometer_4
17	Fan_tachometer_5
19	Fan_tachometer_6

2	+5V
4	GND
6	1-Wire
8	Fan PWMA
10	Fan PWMB
12	Fan PWMC
14	GND
16	Spare_1
18	Spare_2
20	Spare_3

Connector Samtec TFM-110-02-L-D-P



11) Power Connector Fans (XFANP)

1	GND
2	GND
3	GND
4	Fan_Power
5	Fan_Power
6	Fan_REG

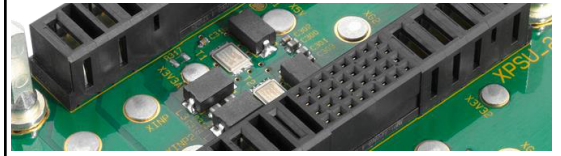
Connector Molex 43879-0023



Mating with:
5557 Mini-Fit Jr. Receptacle Housing,
42385 Mini-Fit BMI Receptacle Header,
Mini-Fit BMI Receptacle Housing 42474,
44516

3U VPX Power BACKPLANE
3 Slot – AC Input Voltage

VITA 62



12) Connector Shelfmanager (XSM)

1	+5V STDBY
3	+5V
5	ACFAIL
7	SYSFAIL
9	SYSRESET
11	Fan PWM
13	1-Wire-TSENSE
15	DEG1
17	FAIL1
19	ENABLE1
21	Fan tachometer 1
23	Fan tachometer 2
25	Fan tachometer 3
27	12V Fan supply
29	FANREG
31	GND
33	GND

2	+5VMON
4	+3V3MON
6	-12VMON
8	+12VMON
10	GND
12	I2C SCL
14	I2C SDA
16	DEG2
18	FAIL2
20	ENABLE2
22	Fan tachometer 4
24	Fan tachometer 5
26	Fan tachometer 6
28	12V Fan supply
30	FANREG
32	GND
34	GND

Connector Harting
09185346329



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

Germany

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