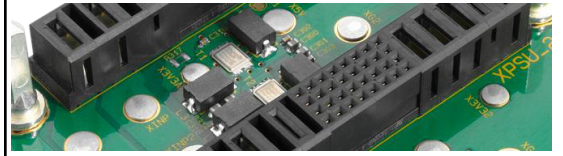


## 3U VPX Power BACKPLANE 2 Slots – DC Input Voltage

VITA 62



### Key Features:

- Compliant to VITA 62 baseline specification
- 2 Slot 3U J0 Connector
- Input Voltage 18-36VDC
- Max. Input Current 40A per Slot
- M3 studs for VS1/12V (max. 80A), VS2/3.3V (max. 40A) VS3/5V (max. 80A) and GND (max. 110A)
- PCB size 128.50mm x 60.66mm x 3.4 mm
- Optimized for parallel use
- 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 DC PSU, such as the Hartmann 400W DC Power Supply p/n D575.00720
- Operating temperature: -40° - +85°C
- Storage temperature: -55°C - +85°C
- Flammability rating: UL94-V0
- Custom assembly or modification on request

Front side



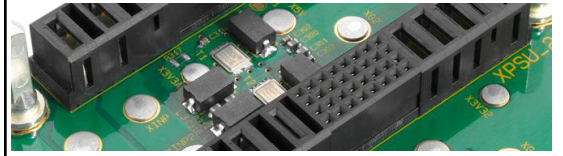
Back side



▪ Order number: B1932D4231

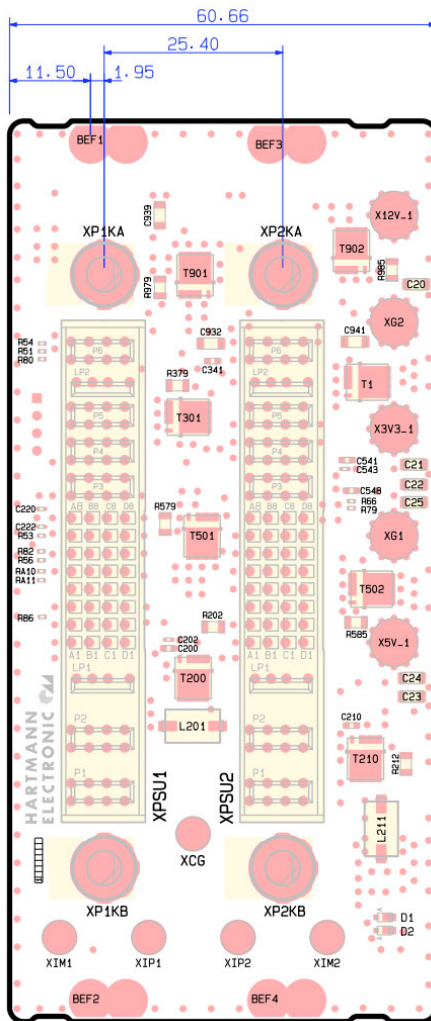
**3U VPX Power BACKPLANE**  
**2 Slots – DC Input Voltage**

**VITA 62**

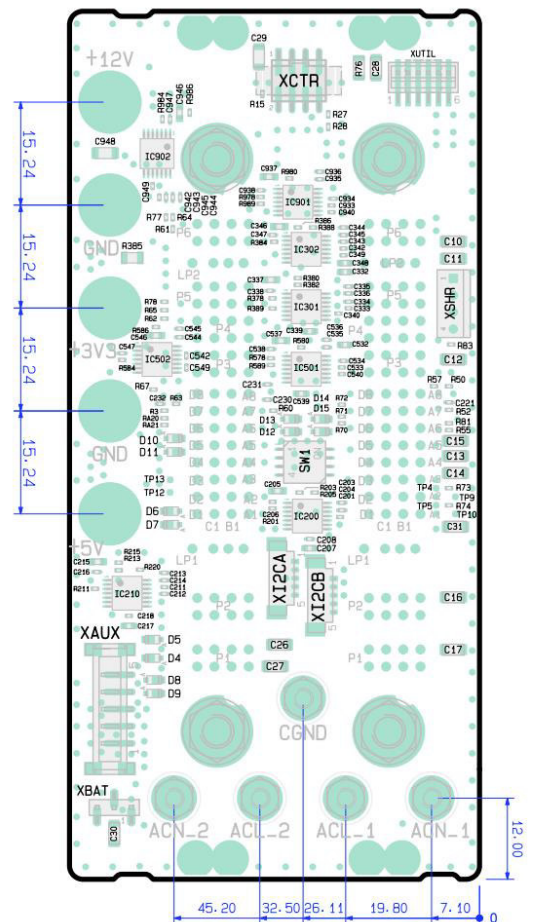


**1) Drawings**

Front side

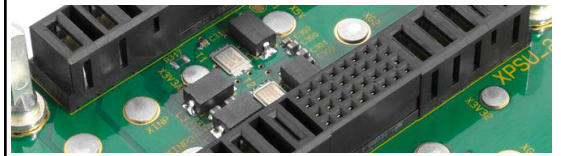


Back side



## 3U VPX Power BACKPLANE 2 Slots – DC Input Voltage

VITA 62

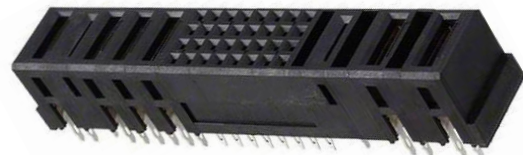


### 2) J0 Power Connector (XPSU)

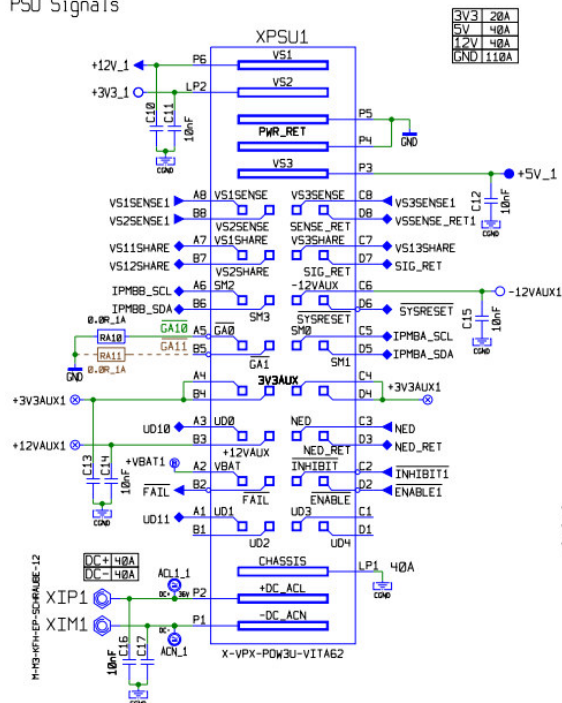
For 3U PSU Plug-In Modules according to VITA 62.0.

(R4, R6, R8, R9, R10 is optional if sense lines cannot be connected)

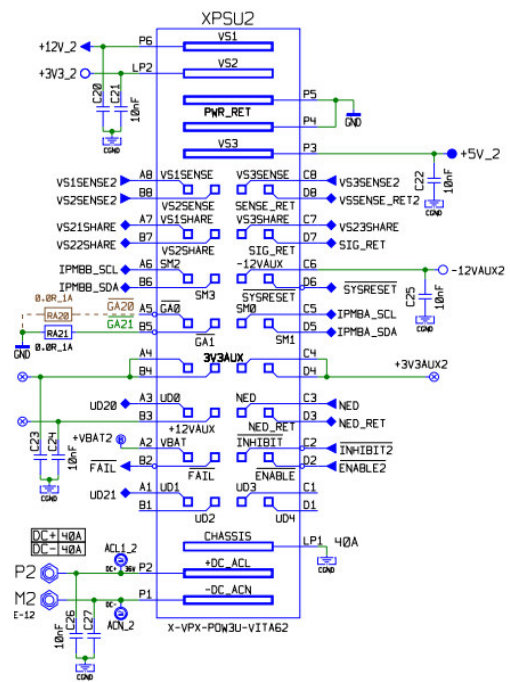
Connector Tyco 1-6450869-4



PSU Signals



Connector 1



Connector 2

### 3) Power Input M3 studs

Slot 1: XIP1 = DC1 + and XIM1 = DC1 –

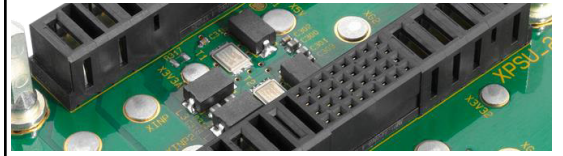
Slot 2: XIP2 = DC2 + and XIM2 = DC2 –

Max current 40A per stud



## 3U VPX Power BACKPLANE 2 Slots – DC Input Voltage

VITA 62



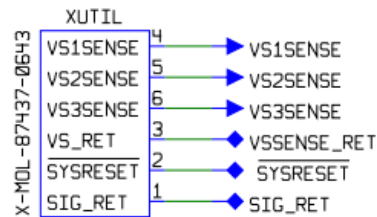
### 4) Current Capability:

|               |      |
|---------------|------|
| ■ VS1: +12V   | 80 A |
| ■ VS2: +3.3V  | 40 A |
| ■ VS3: +5V    | 80 A |
| ■ +3.3V AUX   | 6 A  |
| ■ +/- 12V AUX | 2 A  |

### 5) Control Signals (Connector XUTIL)

- 1: Return path for signals, grounded on VPX-Backplane
- 2: System Reset
- 3: Sense Return
- 4,5,6: VS1-, VS2, VS3-Sense

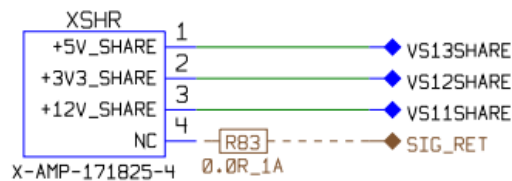
Connector Molex 87437-0643



### 6) Current Share (Connector XSHR)

- 3, 2, 1: VS1-, VS2-, VS3-Share
- 4: Not connected

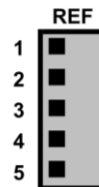
Connector TE Connectivity 171825-4



### 7) IMPB(A+B) I<sup>2</sup>C 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 |

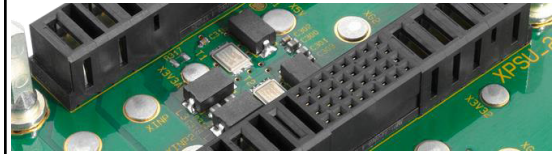


Mating with:  
PicoBlade Cable  
Assembly 15134



## 3U VPX Power BACKPLANE 2 Slots – DC Input Voltage

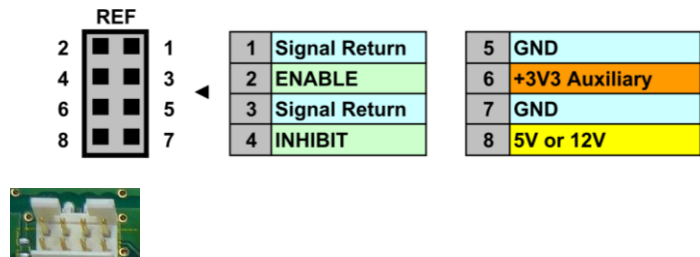
VITA 62



### 8) 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)

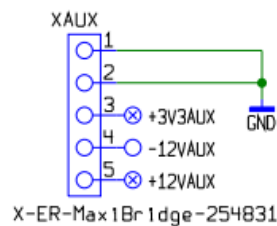
Connector FCI 95615-008LF



### 9) Connector for auxiliary voltages (XAUX)

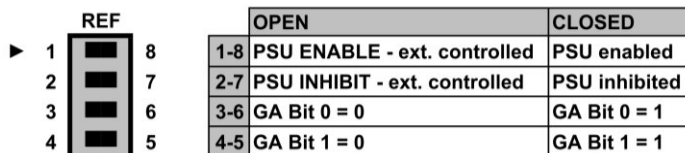
- 1: Auxiliary voltage ~ 3.0 V (2.55-3.5V, for setups, volatile memories etc.)

Connector Erni 254831



Mating with:  
Erni 364226

### 10) Switch SW1



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