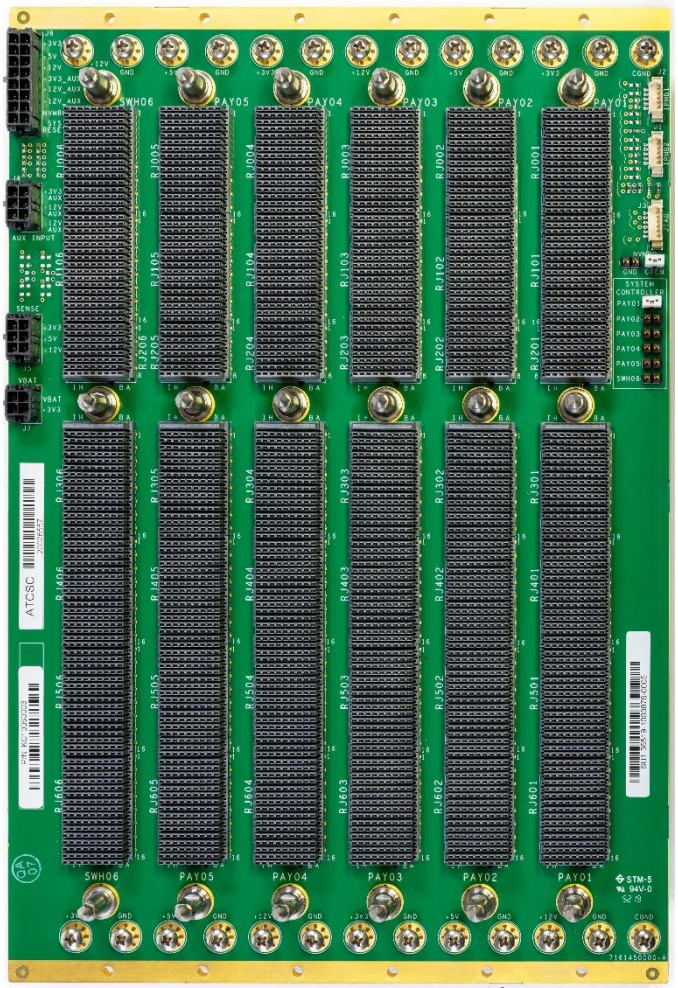
BKP6-CEN06-11.2.24-5 Backplane

Amphenol Backplane Assembly & System Integration

Amphenol-BSI have been designing, assembling and testing backplanes for more than 30 years. Our experience of backplane design, manufacturing, development and electrical test technologies allows us to deliver the highest performance backplane at a product cost you can bring to the market. As part of the Amphenol Corporation, we continue to invest in our technologies to ensure we remain positioned as the most extensively tooled Backplane Supplier in the industry.



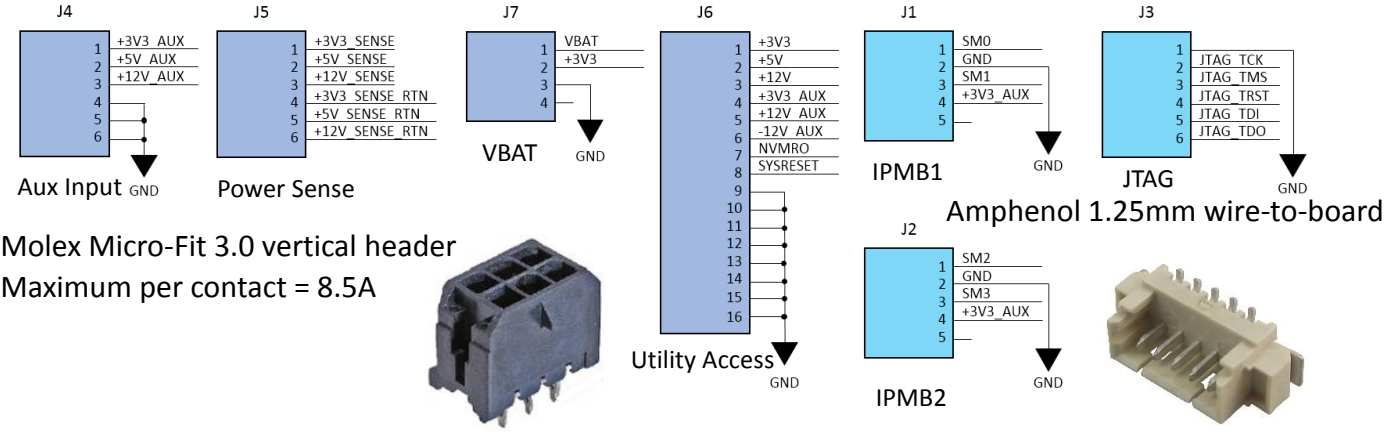
Viewed from the rear side

Power Delivery

- 12x Ground locations
- 2x Safety Ground locations
- 4x 3.3V locations
- 4x 5V locations
- 4x 12V locations

PEM Broaching Standoff	
Thread size x Pitch	M3 x 0.5
Height from PCB surface	4mm ±0.13
Material	Carbon Steel
Current rating	25A

Utility Interfaces



Amphenol 1.25mm wire-to-board

Molex Micro-Fit 3.0 vertical header
Maximum per contact = 8.5A

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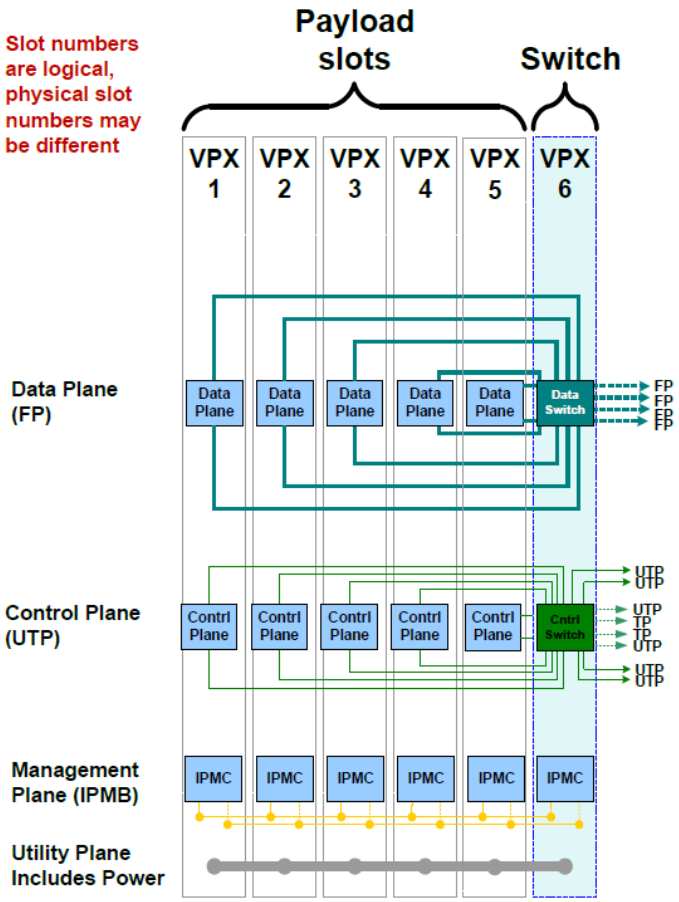

- Data Plane signals are not available on RTMs due to high data rates.
- Control Plane signals are not available on RTMs due to high data rates.
- Management Plane signals are available on RTMs.
- Utility Plane signals are available on RTMs
- JTAG (J3) access is to VPX1 slot only.

Configurable Interfaces

- NVMRO
  The supplied shunt can be assembled in an open or grounded position.

- System Controller
  The supplied shunt can be assembled to assign any slot as the system controller.

General Information

- ANSI/VITA 46.0-2019 VPX Baseline Standard
- ANSI/VITA 65.0-2019 OpenVPX System Standard
- ANSI/VITA 68.1-2019 VPX Compliance Channel
- 1x Switch slot SLT6-SWH-16U20F-10.4.2
- 5x Payload slots SLT6-PAY-4F1Q2U2T-10.2.1
- Optional RTM assembly
- Dimension: 177.20mm x 262.05mm x 5.40mm
- Multiple utility connectors for signal access
- Multiple power locations for distributed delivery
- Optimised for high-speed signal performance
- Edge plating to minimise EMI emissions

Ordering Information

Backplane Profile Name	Mechanical		Channel Data Rate (Gb/s)			Ordering Part Number
	Pitch	RTM	Expansion Plane	Control Plane	Data Plane	
BKP6-CEN06-11.2.24-5	1.0”	yes	n/a	10.3125	10.3125	KC10060003
BKP6-CEN06-11.2.24-5	1.0”	no	n/a	10.3125	10.3125	KC10060016

Contact

AMERICAS	EUROPE	ASIA
Saul Santos	Des King	Denise Li
Saul.santos@amphenol-tcs.com	desmond.king@amphenol-tcs.com	denise.li@amphenol-tcs.com
+1.408.321.0629	+353.41.980.6992	+86.519.6889.6507