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.

Backplane Topology

Table 31   **9 Slot Backplane Wiring (System Slot Left)**

Physical Slot Number:	1	2	3	4	5	6	7	8	9	
GA[3:0]	n.a.	0111	0110	0101	0100	0011	0010	0001	0000	
Slot Interface	SYS	Peri_1	Peri_2	Peri_3	Peri_4	Peri_5	Peri_6	Peri_7	Peri_8	
Eth_8	Link_1-9	Link_2-9	Link_3-9	Link_4-9	Link_5-9	Link_6-9	Link_7-9	Link_8-9	Link_8-9	Full Mesh Only
Eth_7	Link_1-8	Link_2-8	Link_3-8	Link_4-8	Link_5-8	Link_6-8	Link_7-8	Link_7-8	Link_7-9	
Eth_6	Link_1-7	Link_2-7	Link_3-7	Link_4-7	Link_5-7	Link_6-7	Link_6-7	Link_6-8	Link_6-9	
Eth_5	Link_1-6	Link_2-6	Link_3-6	Link_4-6	Link_5-6	Link_5-6	Link_5-7	Link_5-8	Link_5-9	
Eth_4	Link_1-5	Link_2-5	Link_3-5	Link_4-5	Link_4-5	Link_4-6	Link_4-7	Link_4-8	Link_4-9	
Eth_3	Link_1-4	Link_2-4	Link_3-4	Link_3-4	Link_3-5	Link_3-6	Link_3-7	Link_3-8	Link_3-9	
Eth_2	Link_1-3	Link_2-3	Link_2-3	Link_2-4	Link_2-5	Link_2-6	Link_2-7	Link_2-8	Link_2-9	
Eth_1	Link_1-2	Link_1-2	Link_1-3	Link_1-4	Link_1-5	Link_1-6	Link_1-7	Link_1-8	Link_1-9	

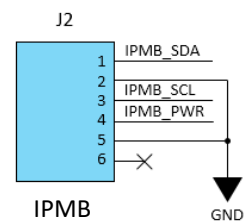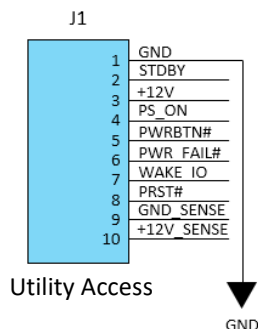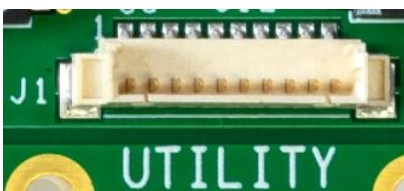Example: Ethernet full mesh Topology

Power Delivery

- 5x Ground locations
- 1x Standby location
- 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

J1

1	GND
2	STDBY
3	+12V
4	PS_ON
5	PWRBTN#
6	PWR_FAIL#
7	WAKE_IO
8	PRST#
9	GND_SENSE
10	+12V_SENSE

Utility Access

GND

J2

1	IPMB_SDA
2	IPMB_SCL
3	IPMB_PWR
4	
5	
6	

IPMB

GND
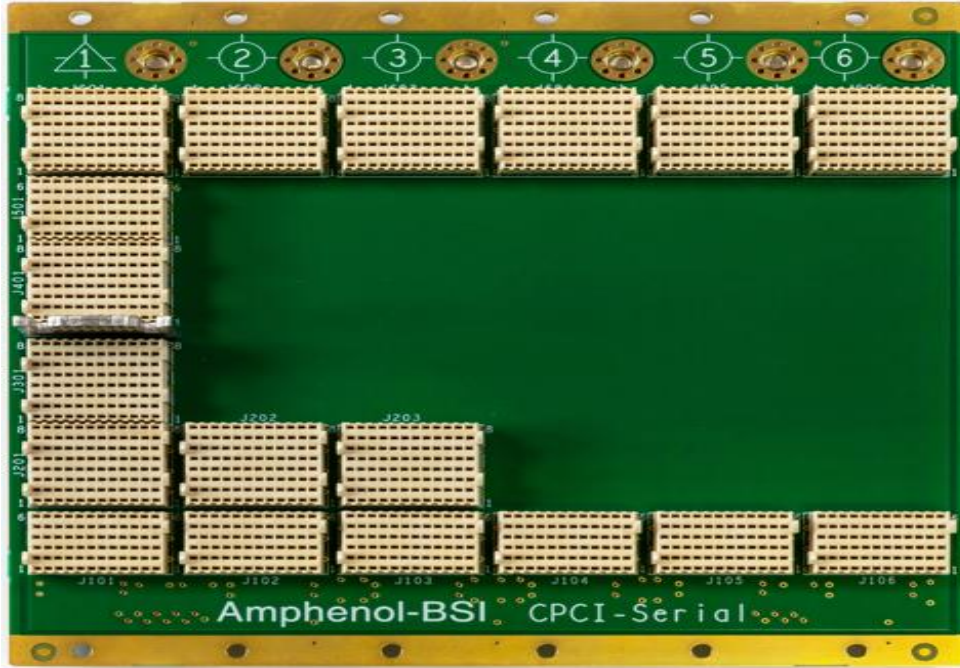
Amphenol 1.25mm wire-to-board

Amphenol-BSI 3U 9-slot Left System Slot Compact-PCI Serial Backplane

Amphenol-BSI's range of PICMG compliant backplanes includes CompactPCI Serial which modernizes CompactPCI to include high-speed serial Ethernet, PCIe, SATA and USB interconnects. These high-speed serial interconnects are capable of data rates up to 12Gb/s.

General Information

- Compact PCI Serial Specification PICMG CPCI-S.0 R2.0
- 1x Compact PCI Serial left system slot.
- 8x Compact PCI Serial peripheral slots
- Amphenol AirMax VS connector system
- High-speed serial interfaces up to 12.5Gb/s

- Optional RTM assembly
- Dimension: 181.88mm x 128.50mm x 4.50mm
- Utility connector for signal access
- IPMB connector for System Management
- Multiple power delivery options for
  -Distributed Power

Ordering Information

Fully Customised Solutions Available

Backplane Profile	Mechanical		Electrical				
Name	Pitch	RTM	System Slot	Ethernet	PCIe	USB	SATA
KC10040021	0.8"	no	left	yes	yes	yes	yes

Contact

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