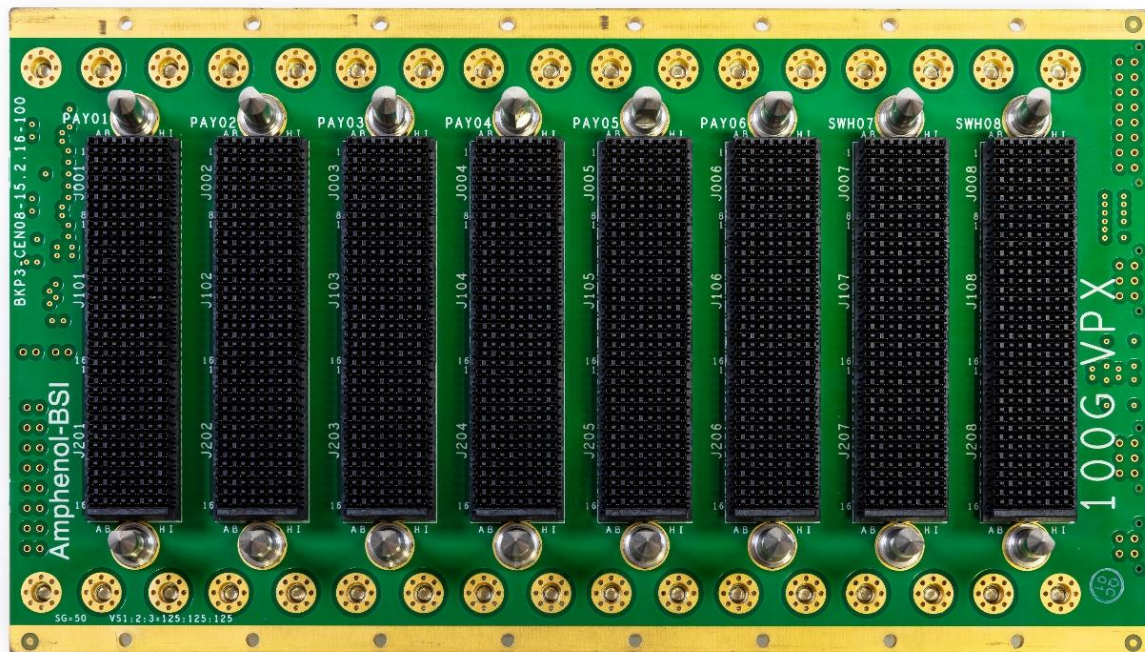


## Amphenol Backplane Assembly & System Integration

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.



## Next Generation 100G VPX Backplane Performance

Amphenol-BSI introduce our 100G VPX Backplane. Based on the OpenVPX65 BKP3-CEN08-15.2.16-n profile we have used our experience and expertise from many years supplying 100G backplane systems to the IT/Datacom market to realise Next Generation VPX technology.

Next generation VPX interconnects allow the signal transition path to expand to 100G bandwidth through a traditional copper backplane. However, this is only one element. Backplane assembly and test are critical to ensure that every signal performs as required. ABSI are market leaders in 100G backplane technology, and we are a technology partner of choice in the 100G market.

## General Information

- ANSI/VITA 46.0-2019 VPX Baseline Standard
- ANSI/VITA 65.0-2019 OpenVPX System Standard
- Designed to BKP3-CEN08-15.2.16-n profile
- TE Connectivity Multigig RT 3 connector
- Designed for 100Gbps high-speed performance
- Measured to IEEE 100GBASE KR-4 specification

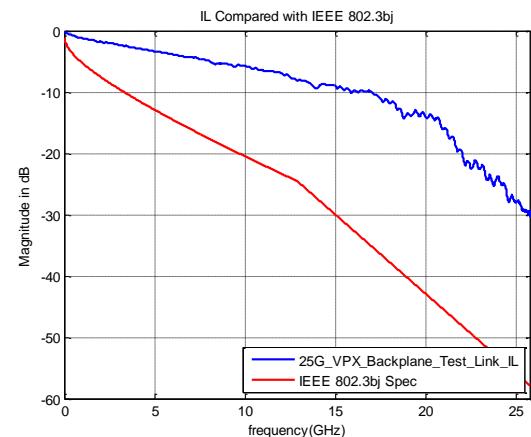
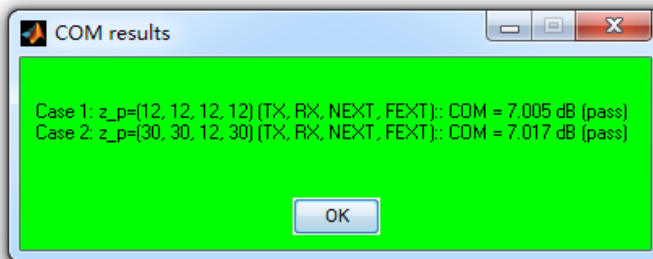
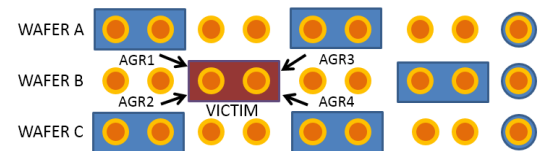
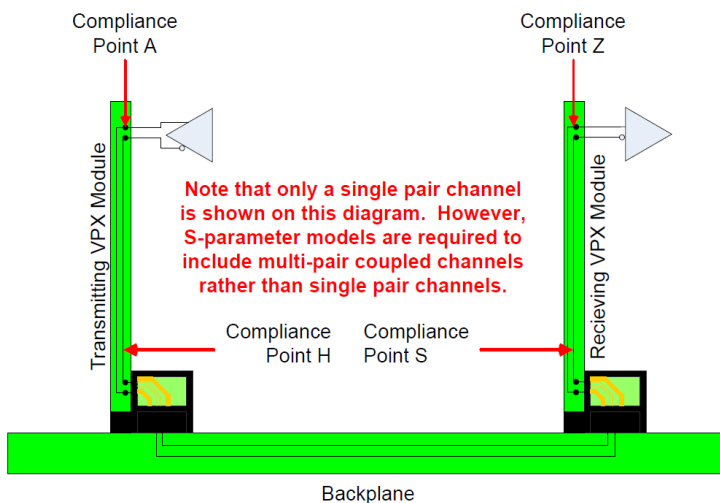
## Fully customised solutions available

## Backplane budget allocation for channel parameters

VITA has yet to set the backplane performance criteria for 100G. We have followed the same methodology that VITA used for 40G (40GBASE-KR4) as set out in ANSI/VITA 68.1 VPX Compliance Channel (AV68.1).

The criterion assigns 70% of the full channel budget to the backplane (compliance points H to S) with 15% for the Module Tx (A to H) and 15% for the Module Rx (S to Z). The 100GBASE-KR4 channel performance sets the masks for Insertion Loss, Return Loss and the COM results. Using the channel

operating tool from the IEEE802.3 group we have calculated 70% of the full channel to measure the performance of our 100G VPX backplane.



## Ordering Information

Backplane Profile Name	Mechanical		Channel Data Rate (Gb/s)			Ordering Part Number
	Pitch	RTM	Expansion Plane	Control Plane	Data Plane	
BKP3-CEN08-15.2.16-n	1.0"	yes	n/a	25.0000	25.0000	KC10060004
BKP3-CEN08-15.2.16-n	1.0"	no	n/a	25.0000	25.0000	KC10060017

## Contact

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