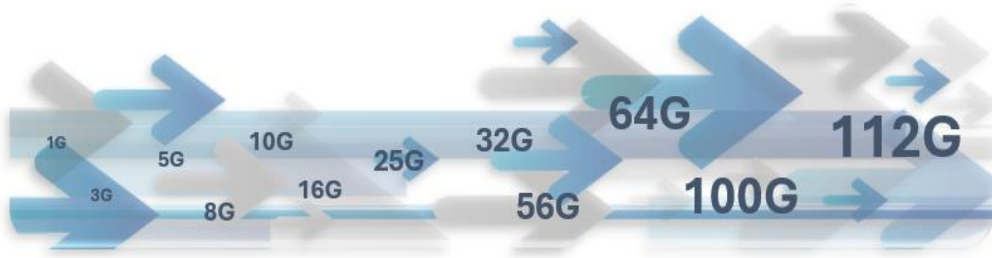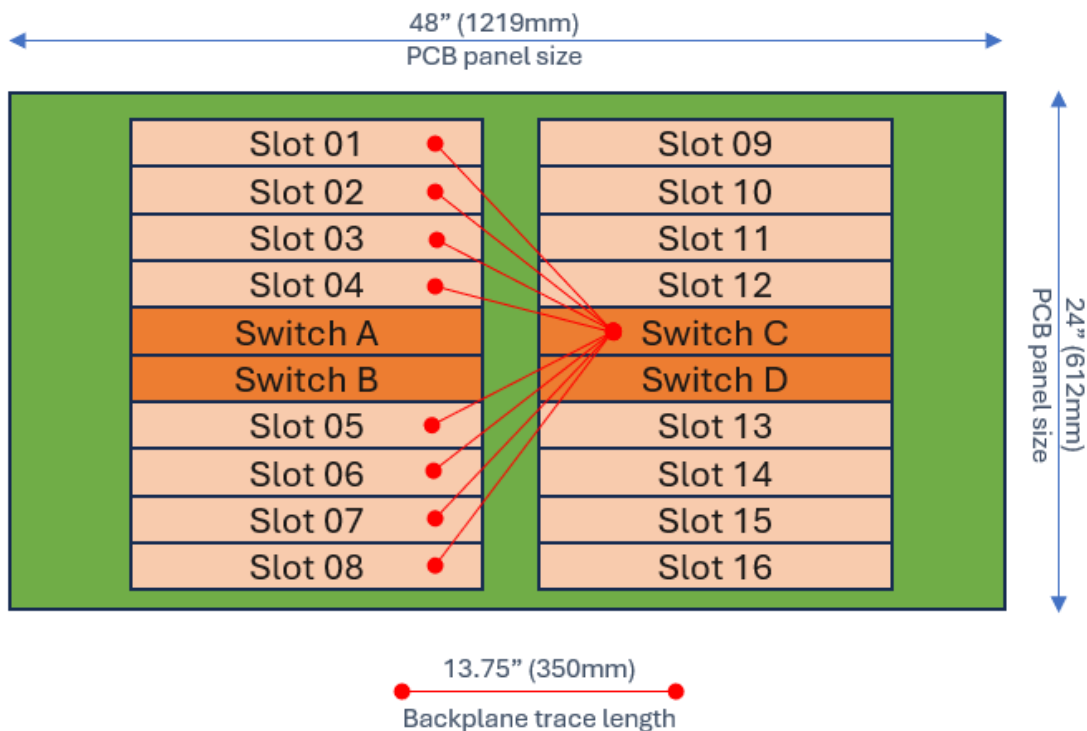# ABSI - 112Gb/s Backplane Technology

Amphenol Backplane Assembly & System Integration

Amphenol-BSI has been a leader in the design and production of backplane and midplane technology for over 30 years. Specializing in the IT Datacom, Telecoms, and Industrial sectors, we have supported the evolution of backplane technology from 1Gb/s to 56Gb/s. Now, we are excited to introduce our ABSI *112Gb/s Backplane technology.*
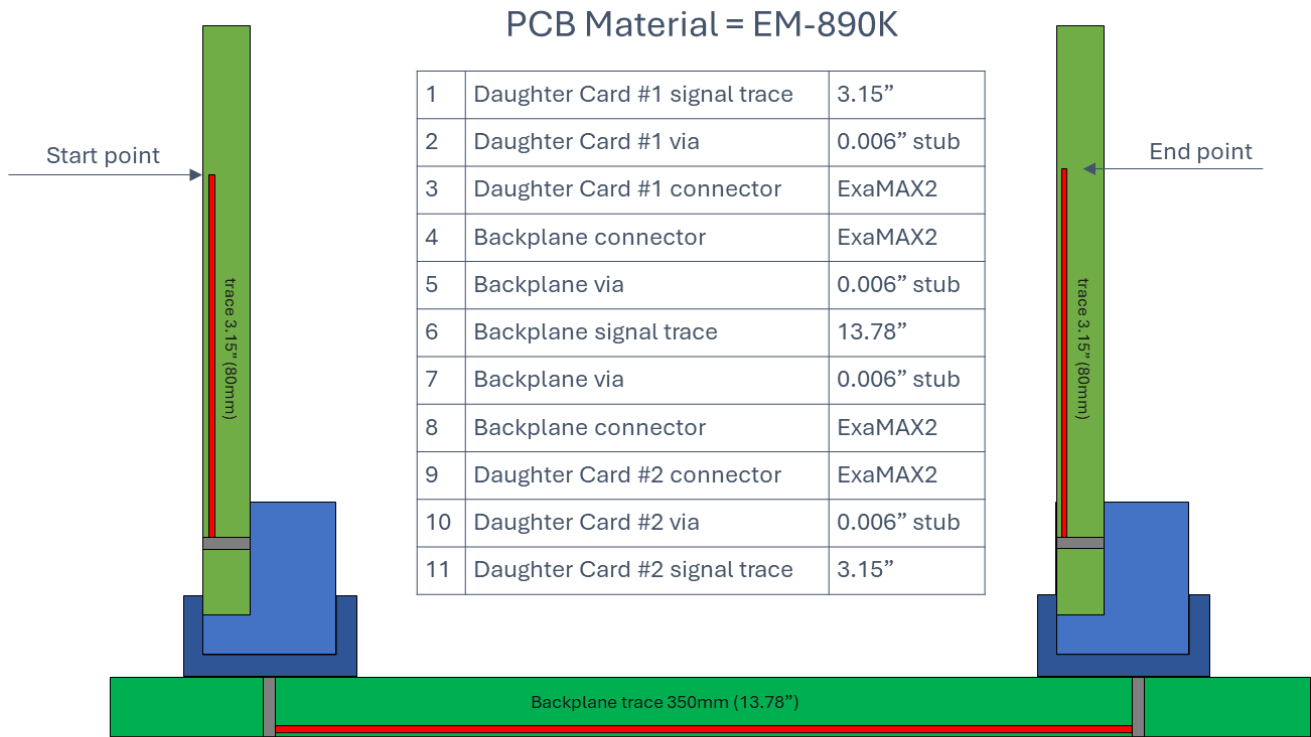

A traditional backplane architecture leveraging the Amphenol PCB, Amphenol Connector and Amphenol Backplane Design, Assembly and Test. This combination of Amphenol engineering and cutting-edge products helps our customers to extend their roadmap to next generation technology and beyond.
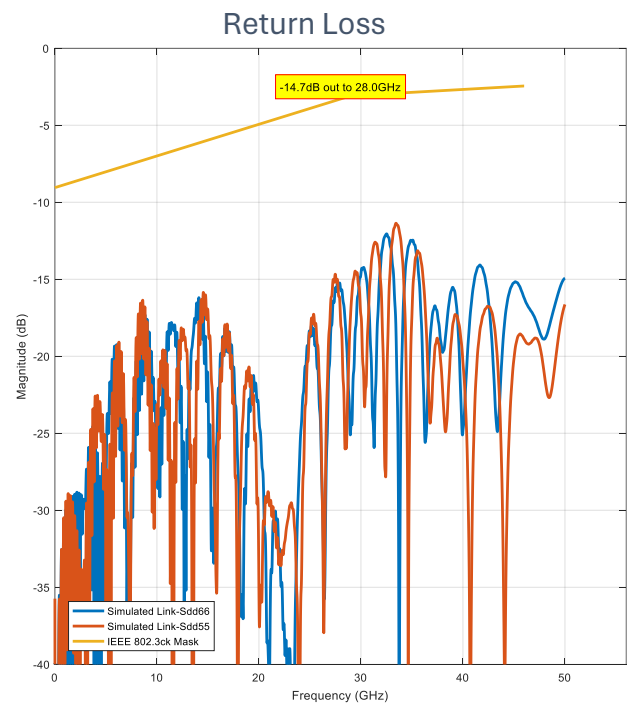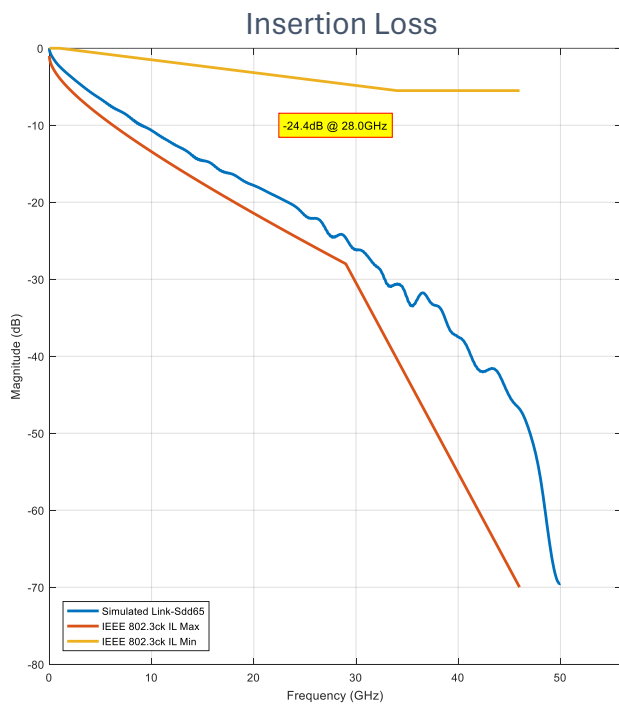

Find us: *https://amphenol-bsi.com/absi-delivering-high-speed-backplanes-up-to-112-gb-s/*

ABSI - 112Gb/s Backplane Technology

PCB Material = EM-890K

1	Daughter Card #1 signal trace	3.15"
2	Daughter Card #1 via	0.006" stub
3	Daughter Card #1 connector	ExaMAX2
4	Backplane connector	ExaMAX2
5	Backplane via	0.006" stub
6	Backplane signal trace	13.78"
7	Backplane via	0.006" stub
8	Backplane connector	ExaMAX2
9	Daughter Card #2 connector	ExaMAX2
10	Daughter Card #2 via	0.006" stub
11	Daughter Card #2 signal trace	3.15"

Start point

End point

trace 3.15" (80mm)

trace 3.15" (80mm)

Backplane trace 350mm (13.78")

Channel length = 20" (510mm)

Insertion Loss

-24.4dB @ 28.0GHz

Magnitude (dB)

Frequency (GHz)

Simulated Link-Sdd65
IEEE 802.3ck IL Max
IEEE 802.3ck IL Min

Return Loss

-14.7dB out to 28.0GHz

Magnitude (dB)

Frequency (GHz)

Simulated Link-Sdd66
Simulated Link-Sdd55
IEEE 802.3ck Mask

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

Enabling the Evolution of Technology

www.amphenol-bsi.com

Amphenol-BSI
Backplane Assembly & System Integration