

# HIGH-SPEED INPUT/OUTPUT INTERCONNECT SELECTION GUIDE



Specification	SFP		zSFP+		QSFP		zQSFP+		QSFP-DD		OSFP			CDFP	
	SFP-DD		ELSFP		QSFP28-56		QSFP+								
	1-112G				10-112G				56	112G	56	112	224G	Gen 5	6
Aggregate Data Rate (Gbps)	10	28	56	112	40	100	200	400	400	800	400	800	1600	800	-
Channels	1, 2 (DD)				4				8		8, 16(XD)			16	
Lane Rate (Gbps)	1 - 112				10 - 112				56- 112		56 - 200			PCIe 5.0 (32GT/s) , PCIe 6.0(64GT/s)	
Number of ports	1 to 24				1 to 6				1 to 6		1, 4			1	
1x1 Cage	Supported				Supported				Supported		Supported			Supported	
Ganged Cage (1xN)	1x1 - 1x8				1x1 - 1x6				1x1 - 1x6		1x1 / 1x4 cage assembly			1x1	
Stacked Cage (2xN)	2x1	2x4	2x8	2x12	2x1	2x2	2x3	-	2x1	2x2	2x1	2x4	-	NIL	
Cable Types	DAC, AOC				DAC, AEC, ACC, AOC				DAC, AEC, ACC, AOC		DAC, AEC, ACC, AOC			DAC, AEC, ACC	
Protocols Supported	Ethernet, Fibre Channel, SONET/SDH, PCIe				Ethernet, InfiniBand, Fibre Channel, PCIe				Ethernet, InfiniBand, Fibre Channel, PCIe		Ethernet, InfiniBand, PCIe, CXL			PCIe, CXL, Ethernet	
Typical Applications	<ul style="list-style-type: none"> <li>Lower-to mid-range network applications for smaller scale data centers and telecommunications</li> <li>Enterprise, Storage, Access</li> </ul>				<ul style="list-style-type: none"> <li>Lower to mid-range network applications for smaller scale data centers and telecommunications</li> <li>Data Center, Edge, AI</li> <li>Training</li> </ul>				<ul style="list-style-type: none"> <li>High-speed networking for data center interconnects with lower power consumption and space efficiency</li> <li>HPC, AI/ML</li> </ul>		<ul style="list-style-type: none"> <li>High-speed networking for largescale with demanding power requirements, long-term network expansion, and future scalability</li> <li>Hyperscale, AI Training</li> </ul>			<ul style="list-style-type: none"> <li><b>JBOM</b> (Just-a-Bunch-of-Memory): Pooled Memory</li> <li><b>JBOG</b> (Just-a-Bunch-of-GPUs): GPU &amp; AI Clusters</li> <li><b>JBOD</b> (Just-a-Bunch-of-Disks) / <b>JBOF</b> (Just-a-Bunch-of-Flash): Storage Arrays</li> <li><b>CXL Switching &amp; Fabrics</b></li> <li><b>JBON</b> (Just-a-Bunch-of-NICs): Disaggregated NICs</li> </ul>	
Notes	PAM4 and NRZ compatible				Supports PAM4 per lane				8-lane PAM4 architecture		Roadmap to 224G / lane (OSFP-XD)			PCIe 7.0(128.0 GT/s)	

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