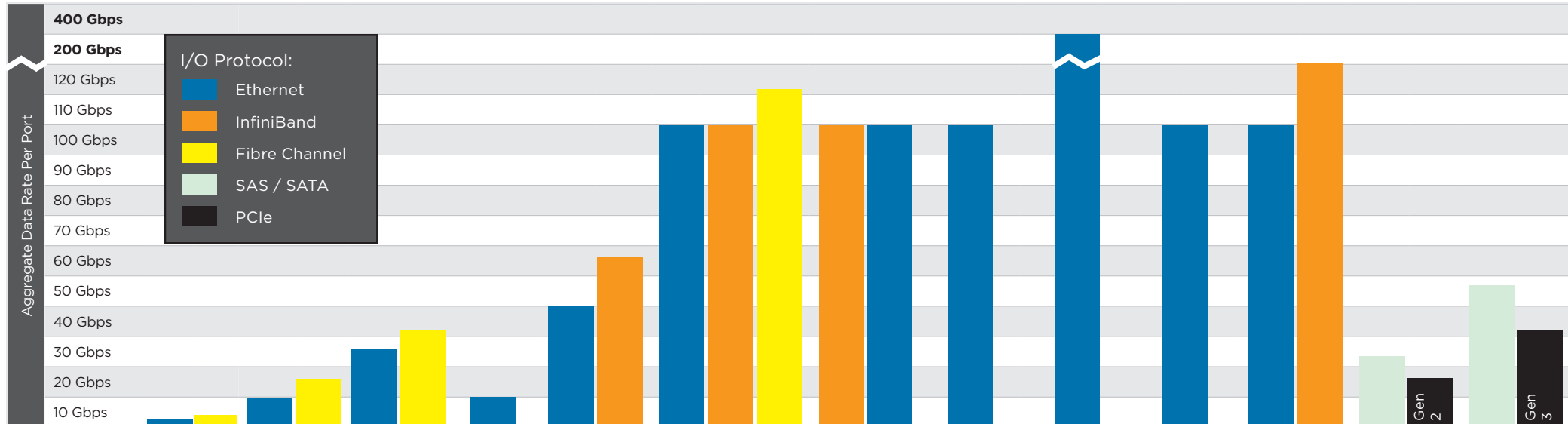
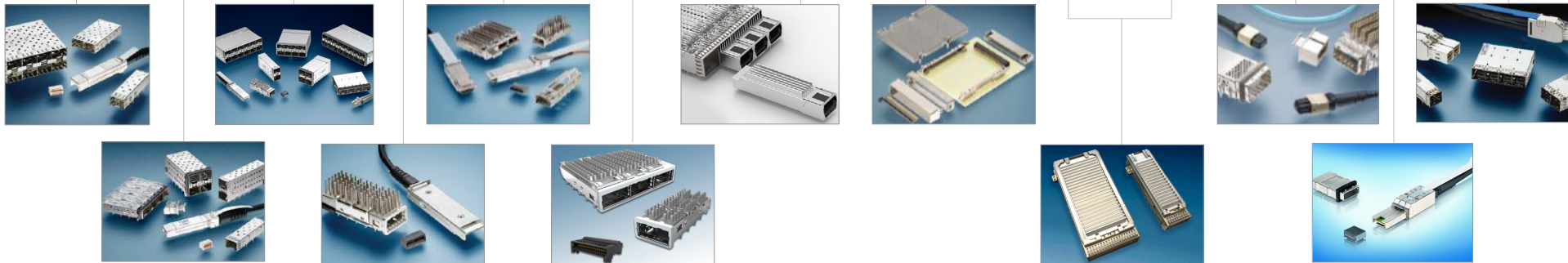


# Pluggable I/O Protocol Guide

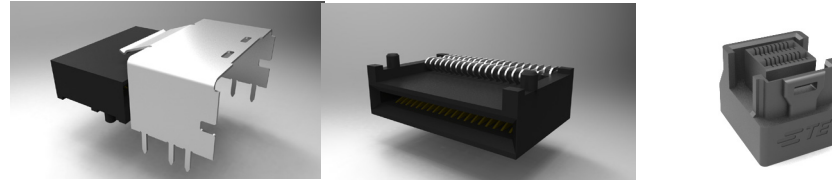


Product	SFP		SFP+		zSFP+		XFP	QSFP+		zQSFP+		microQSFP	CFP			CFP2			CFP4		CXP		Mini-SAS	Mini SAS HD			
Channels	1		1		1		1	4		4		4	10			10	4	8	4		10		12	4	4		
Lane Rate (Gbps)	1	4	10	16	25	32	10	10	14	25	25/28	25	10			10	25	25	10	25	10	10	6	4	12	8	
Port Width (mm)	14		14		14		18.55	18.55		18.55		14	78.8			42.8			21.99		26		17.75		10.75		
Ports Max 19" RU	72		72		72		16*	36		36		72	4			8			16		13*		16*		28*		
1RU Throughput	288G		1.2T		2.3T		160G	2.0T		4.0T		7.2T	400G			1.6T			1.6T		1.6T		384G		1.3T		
SMT Connector	1367073-2		1888247-1		2170088-1		1367500-1	2110819-1		1551920-2		2291538-1	2057630-1			2274845-1			2288229-1		2149448-1		1761987-1		-		
1x1 Cage	1489669-1		2007198-1		2198709-1		1489951-1	1888674-1		2170754-1		2297551-1	2057629-1			2274843-1			2288227-1		2149159-5		1888321-1		2149027-1		
Ganged/1xN Cage	1761014-1		2007132-1		2227730-1		2170125-1	2057183-1		2170747-1		2297550-1	2132404-1			2287076-1			2289496-1		2149731-1		1888321-2		2149966-1		
Stacked/2xN Cage	1658391-2		2007492-5		21938318-2		-	2085945-2		2227666-1		2296273-1	-			-			-		-		-		-		
Copper Cables	1948134-4		2127934-1		2821224-1		-	2053638-1		2231368-1		-	-			-			-		-		-		1-2127833-9		2202503-1



# SAS Standard Products

3G, 6G, 12G, 24G

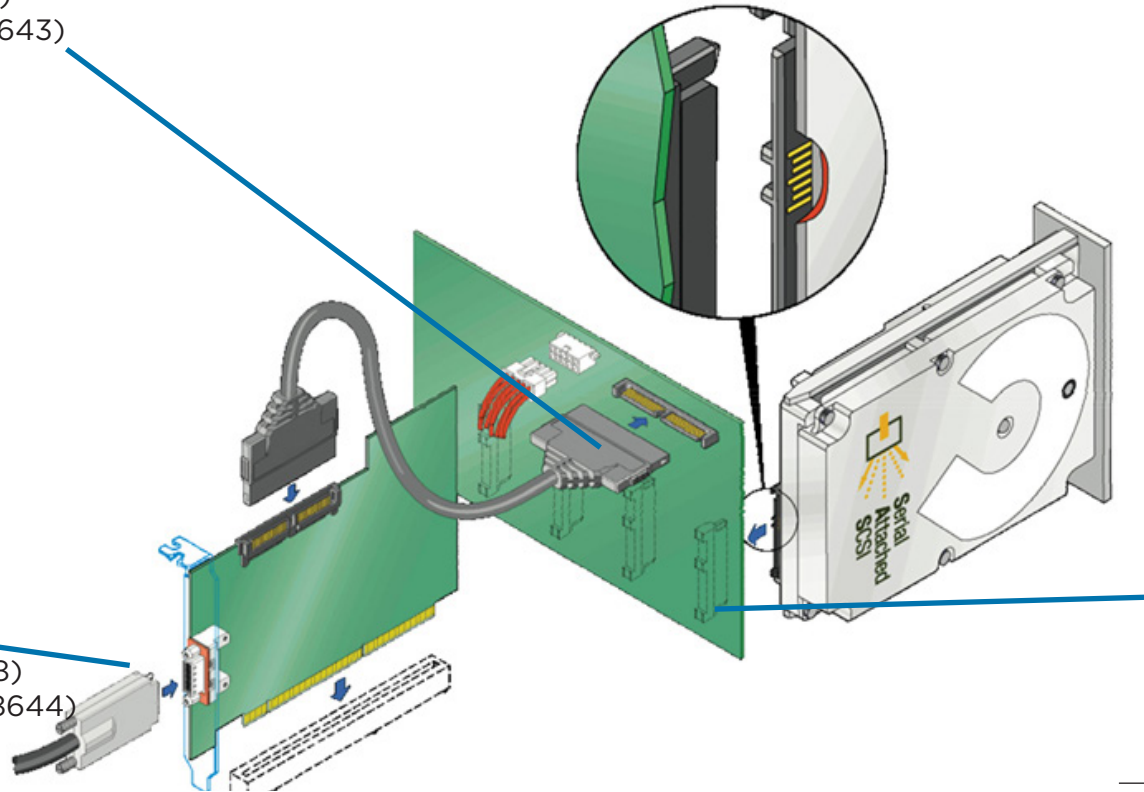


## Mini-SAS internal (4X)

Internal Mini SAS (SFF-8087)

Internal Mini SAS HD (SFF-8643)

SFF-8087	SFF-8643
1-1888019-2	2227580-1
1761987-2	2227581-1
1888174-2	2227582-1
	2227595-1
	2227640-1
	2227642-1



**SAS HDD  
(Hard Disk Drive)**  
3G/6G/12G/24G

SFF-8482, 3G/6G 2X

SFF-8680, 12G 2X

SFF-8639, 12G Multilink SAS

+ PCIe Gen3

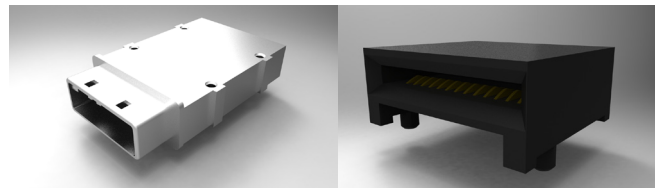
SFF-8631, 24G 4/8X

## Mini-SAS external (4X)

External Mini SAS (SFF-8088)

External Mini SAS HD (SFF-8644)

SFF-8088	SFF-8644
1761987-7	2149027-1
2007570-1	2149966-1
1888321-1	2149375-1
1888321-2	2198484-1
	2198483-1
	2180736-1



SFF-8482	SFF-8680	SFF-8639
1735368-1	2170506-1	2170560-1
1735690-1	1735880-1	2170518-1
1735869-1	2170563-1	1735961-1
1735870-1		
1735871-1		

1-1773723-8 DND PDF 7/2016

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