



**Q STRIP®**

**Q2™**

**RAZOR  
BEAM™  
SYSTEM**

**28+**  
GBPS

**Q RATE®**

**EDGE  
RATE™  
CONTACT**

**SEARAY™**  
OPEN PIN FIELD  
INTERCONNECTS

# 28+ Gbps SOLUTIONS



Samtec has developed a full line of connector products that are designed to support serial speeds of 28 Gbps or more.

Several industry standards are developing higher speed serial data interfaces with the purpose of increased data flow. These standards include the Optical Internetworking Forum (OIF) and 100 Gigabit Ethernet (100 GbE). As these standards are finalized, the requisite technology will be deployed in workstations, servers and communication platforms.

These standards will have serial channels operating in the 19 to 28 Gbps range depending on the number of parallel paths which aggregate the data to 100 Gbps. At these data rates, the physical layer needs to be designed as a microwave channel since the data stream can easily have frequency content up to 50 GHz. The technology used to achieve these data rates is a combination of enhanced physical media (connectors, cables, PCBs) and improved transceiver technology.

For assistance in determining a connector's suitability for performing in a 28 Gbps application, please contact [SIG@samtec.com](mailto:SIG@samtec.com).

Pitch	Series	Notes
0,40 mm	ST4/SS4	Razor Beam™ LP
	ST5/SS5	Razor Beam™ LP
0,50 mm	SSH/STH	Razor Beam™ LP
	ERM5/ERF5	Edge Rate™
	QTH/QSH	Q Strip®
0,635 mm	QMS/QFS	Q2™
	ERM8/ERF8	Edge Rate™
0,80 mm	HSEC8	
	LSEM	Razor Beam™
	QRM8/QRF8	Q Rate®
	QTE/QSE	Q Strip®
	SEAM8/SEAF8	SEARAY™
	TEM/SEM	Tiger Eye™
.050"	LPAM/LPAF	SEARAY™ LP
	SEAM/SEAF	SEARAY™
	SEAM1/SEAF	SEARAY™ 85Ω
	MECF	Edge Card
2,00 mm	MEC2	Edge Card