HIGH-SPEED PCIE INTERNAL INTERCONNECTS AND CABLES
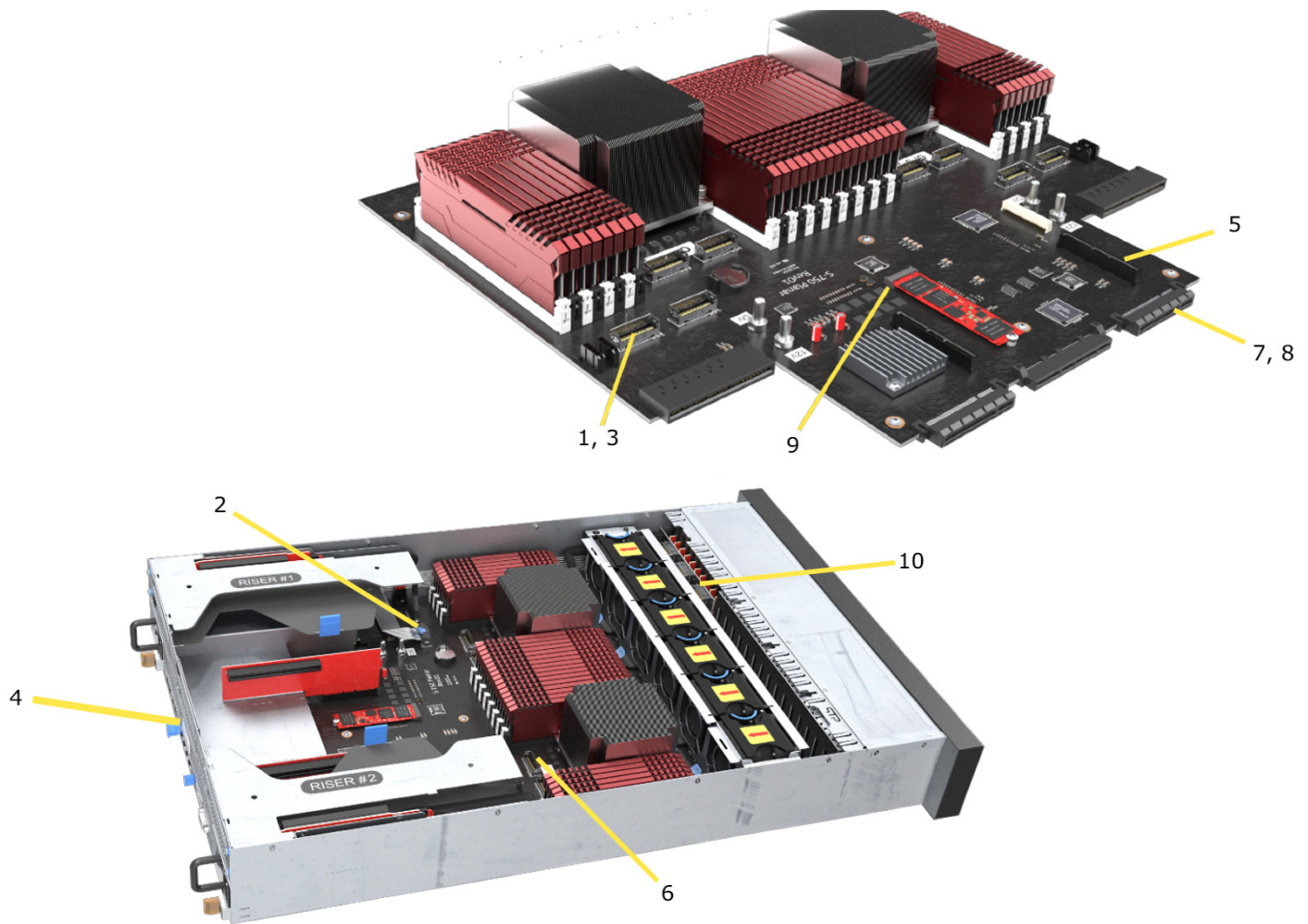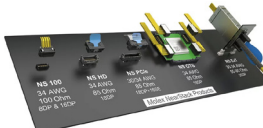
	NAME	STANDARD	SPEED
1	NearStack PCIe	SFF-TA-1026	64 Gbps
2	NextStream	SFF-TA-1035	64 > 128 Gbps upgradable
3	KickStart	SFF-TA-1036	64 Gbps
4	CDFP	SFF-TA-1032	64 Gbps
5	Multi-Trak	SFF-TA-1033	64 Gbps
6	MCIO	SFF-TA-1016	64 Gbps
7	Sliver Edge Card	SFF-TA-1002	64 Gbps
8	Sliver Cables	SFF-TA-1020	32 > 56 Gbps upgradable
9	SlimSAS	SFF-TA-8654	16 Gbps
10	SAS/SATA	SFF-TA-1002	32 Gbps

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The exploding demand for faster, higher-capacity data transfer capabilities has made PCIe (Peripheral Component Interconnect Express) more important than ever. Low-latency performance, scalability, hot swappability and support for high-speed performance make PCIe an important standard for a variety of applications. Molex is an innovative leader in PCI-SIG-standard solutions, with a broad portfolio covering multiple generations including PCIe Gen 5.0, Gen. 6.0 and Gen. 7.0.

64 GBPS SOLUTIONS UPGRADABLE TO 128 GPBS

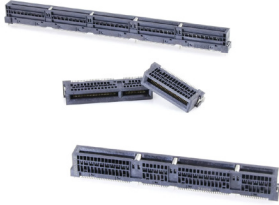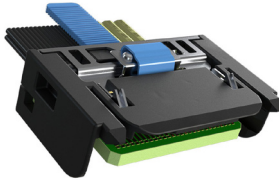|	APPLICATION	PCIe GENERATION	CONFIGURATON	FEATURES
NEXTSTREAM	**Servers** **AI Applications** **Hybrid Cabled NVMe Solutions** **CXL**	**Gen. 6 to Gen. 7**	**High-Speed Connectors and Cable Assemblies**	• SFF-TA-1016-compatible footprint • Paddle card system • Extra channel for added flexibility • Backward-compatible with PCIe Gen. 4, Gen. 5 and SAS-4 standards

64 GBPS SOLUTIONS

	APPLICATION	PCIe GENERATION	CONFIGURATON	FEATURES
NEARSTACK PCIe	**Data Centers** **High-Density Applications**	**Gen. 6**	**High-Speed Connectors and Cable Assemblies**	• Best-in-class PCIe Gen. 6 performance • Low mated height • No paddle card • Enables seamless upgrade from PCIe Gen. 5
KICKSTART	**Boot Drives** **Data Systems**	**Gen. 5 and Gen. 6**	**Cable-Optimized Boot Peripheral Connection System**	• Encompasses high-speed, side bands and power connections • Up to 4.0A capacity • The only OCP-recommended boot peripheral solution

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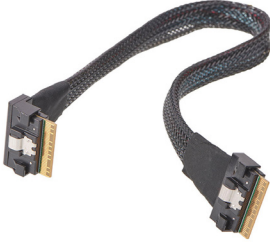
64 GBPS SOLUTIONS

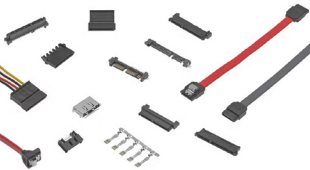|	APPLICATION	PCIe GENERATION	CONFIGURATON	FEATURES
CDFP	**Switches and Routers** **Signal Processing** **Telecom/ High-Performance Computing Systems**	**Gen. 5 and Gen. 6**	**High-Density Connectors and Cable Assemblies**	• Highest port and bandwidth density of any pluggable form factor • 400 Gbps per port • 16 lanes
MULTI-TRAK	**Communications** **Telecom** **Storage Systems** **Computing**	**Gen. 5 and Gen. 6**	**High-Speed Combined Form Factor Connector**	• Combines PCIe and MCIO form factors into one connector • Slim form factor
MCIO	**Servers** **Data Storage**	**Gen. 5 and Gen. 6**	**High-Speed Connectors and Cable Assemblies**	• Excellent signal integrity • Slim form factor • Up to 20 lanes

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32 GBPS SOLUTIONS UPGRADABLE TO 56 GPBS

	APPLICATION	PCIe GENERATION	CONFIGURATON	FEATURES
SLIVER EDGE CARD	**Telecom** **Networking**	**Gen. 4 and Gen. 5**	**Board-to-Board Edge Card Connector**	• Versatile, modular configurations • Copper flex and cable connection capabilities
SLIVER CABLES	**Telecom** **Data Centers** **High Speed Computing**	**Gen. 5 Upgrade path to Gen. 6**	**High-Speed Connectors and Cable Assemblies**	• High density • Compact footprint • Enhanced signal integrity and electrical performance • Minimized signal loss

32 GBPS SOLUTIONS

	APPLICATION	PCIe GENERATION	CONFIGURATON	FEATURES
SLIMSAS	**Download Systems** **Data Centers** **Networking**	**Gen. 4 and Gen. 5**	**High-Speed Connectors and Cable Assemblies**	• High density • Compact footprint

16 GBPS SOLUTIONS

	APPLICATION	PCIe GENERATION	CONFIGURATON	FEATURES
SAS/SATA	**Communications** **Data Storage** **Data Systems**	**Gen. 3**	**High-Speed Connectors and Cable Assemblies**	• Low cost • Quick to market • Reliable performance

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