T-Path 100-Gbps Connector Solutions

molex®

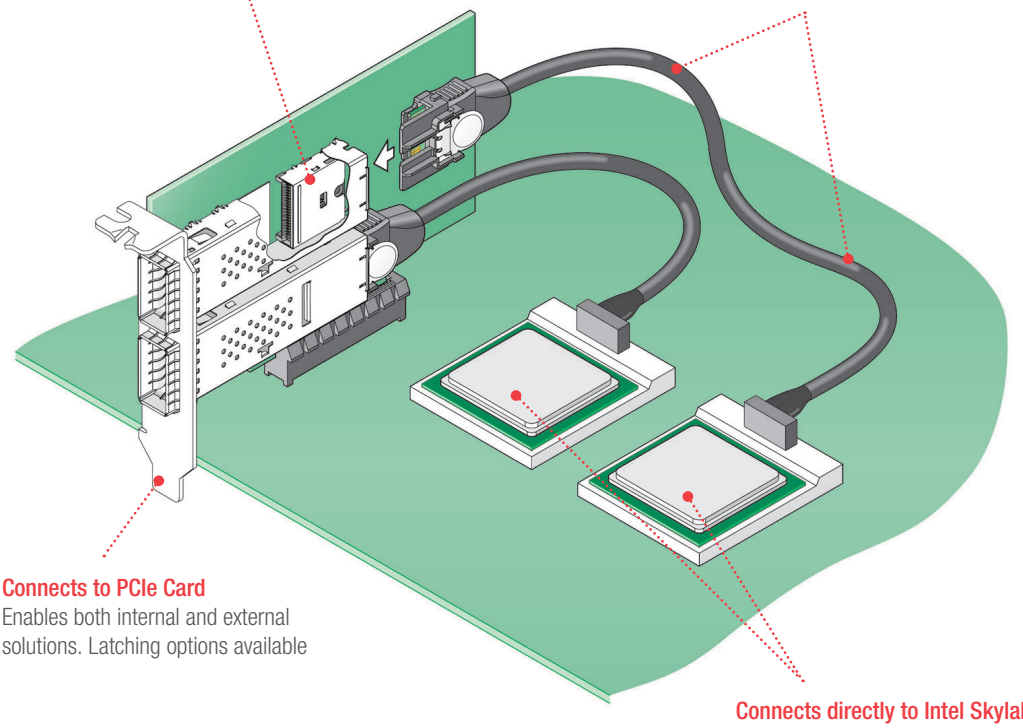
The innovative T-Path 100-Gbps Connector Solution improves signal integrity and decreases latency by transmitting directly to an Intel processor and bypassing printed circuit board traces via an internal cable

T-Path 100-Gbps Surface Mount Connector

Features and Benefits

T-Path™ Connector
100Gbps High-Speed IO Connector

Use with TE IFP cable
www.te.com



Connects to PCIe Card
Enables both internal and external solutions. Latching options available

Improved Signal Integrity
Improves Signal Integrity on high speed signals over a low loss internal cable versus the traditional design that uses lossy PCB traces

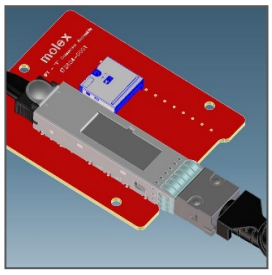
Connects directly to Intel Skylake Xeon and Knights Landing Xeon Phi processors (www.intel.com)
Bypasses PCB traces. Improves signal integrity and performance

Applications

Telecommunications/Networking

- Supercomputers
- Servers
- Machine Learning
- Artificial Intelligence

Servers



T-Path Connector and Cage on Red Board

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Specifications

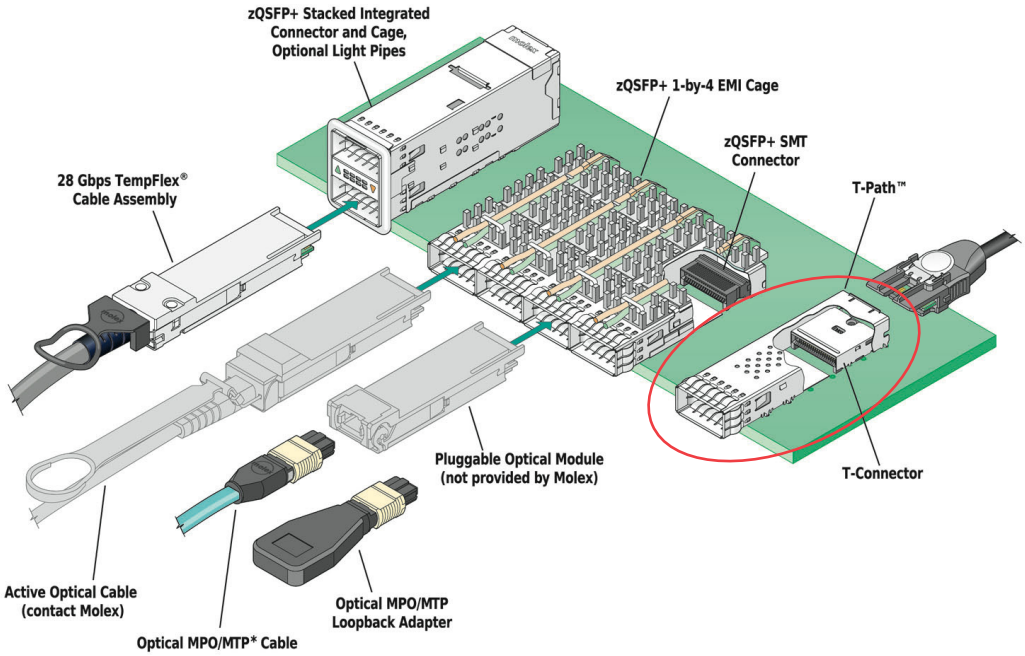
REFERENCE INFORMATION
Packaging: Tray
UL File No.: E29179
Mates With: Copper Cable Assemblies (Series 74757, 111040)
Designed In: Millimeters

ELECTRICAL
Voltage: 30V
Current (max.): 0.5A; power contacts 1.0A
Contact Resistance (max.): 30 milliohms
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance (min.): 1000 Megohms

MECHANICAL
Mating Force: 0.75N per circuit
Unmating Force: 0.25N per circuit
Durability: 100 cycles for 30µ" Gold (Au) plating

PHYSICAL
Housing: Glass Filled, LCP, UL 94V-0
Heat Sink Clip: Stainless Steel
Cage: Stainless Steel
EMI Springs: Copper Alloy
Contact: High-performance Copper Alloy
Plating: .76µm min gold over 2.54 µm Nickel
Contact Area — Gold
Solder Tail Area — Tin over Nickel
Underplating — Nickel
Operating Temperature: -40 to +80°C

zQSFP Digital Product Board



Ordering Information

Series No.	Component
172604	Connector
	Cage for Heat Sink (Not Light Pipe Compatible)
	Cage (Neither Heat Sink nor Light Pipe Compatible)
100013	Heat Sink
	Heat Sink Clip

www.molex.com/link/tpath.html

Order No. 987651-6981 USA/0k/GF/2017.07