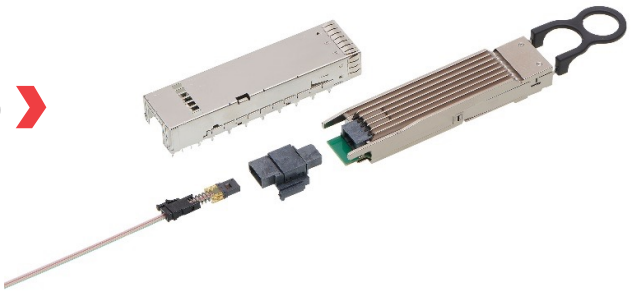
PRELIMINARY DATASHEET

External Laser Source Interconnect System (ELSIS)

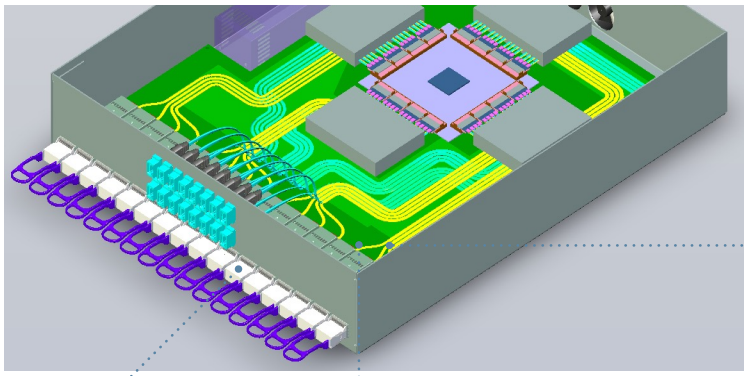


External Laser Source Interconnect System (ELSIS)

The External Laser Source Interconnect System (ELSIS) is a first-to-market blind-mating optical and electrical interconnect in a pluggable module format that supports co-packaged optics (CPO) requiring a remote laser source.

FEATURES AND ADVANTAGES

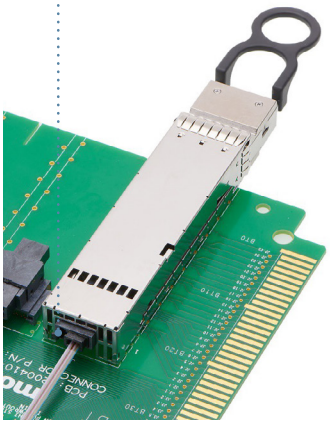
CPO implementation
Brings optical fibers directly to the IC substrate or package, eliminating the need for traditional high-speed electrical interfaces. Optical signals are direct to the external network, saving power by eliminating high-speed electrical I/O drivers on the IC and in pluggable modules while increasing front-panel I/O density.

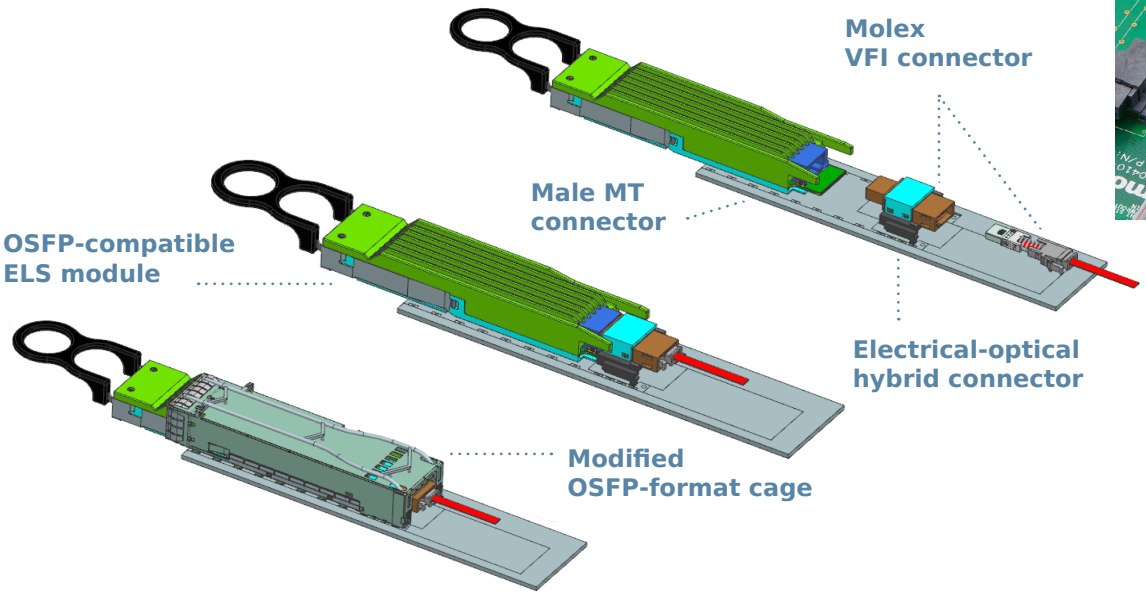


ELS pluggable module
Houses high-power continuous wave lasers, which provide optical power to CPO tiles. Simplifies optical eye safety and cabling issues during mating and handling.

OSFP-format cage
Provides known electrical, thermal and mechanical characteristics with an industry-standard interface.

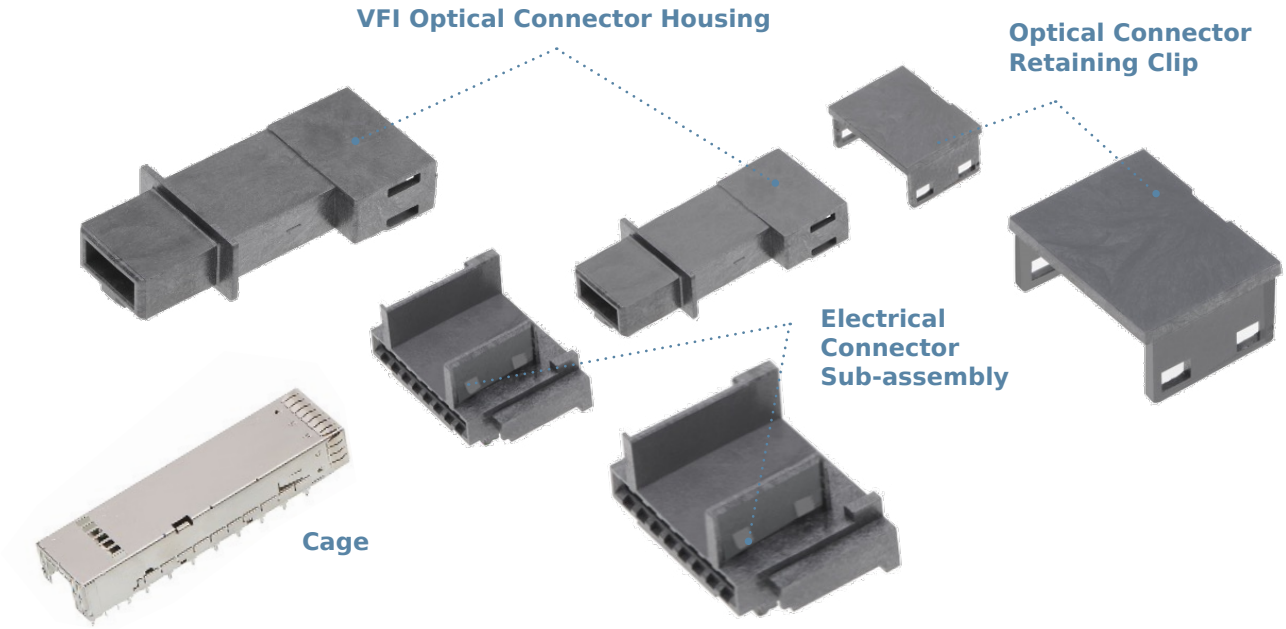
VFI optical connector interface
Delivers superior optical performance with any MT-ferrule-based footprint. Meets high-density requirements with 8-, 12-, 24- and 32-fiber MT ferrules.





PRELIMINARY DATASHEET

External Laser Source Interconnect System (ELSIS)



MARKETS AND APPLICATIONS

Telecommunications/Networking
Switches

Data/Computing
Machine Learning Systems
High-Performance Computing Systems

SPECIFICATIONS

Reference Information
Packaging: Dependent on component:
Individual pack, tape and reel, or tray.
UL File No.: Utilizes 94V0 materials
Mates With: VFI Daughter Card Connector and VFI Backplane Adapter
Use With: MT Ferrule
Designed In: Millimeters
RoHS: Yes

Optical
IL: Ferrule dependent
RL: Ferrule type dependent
Mate/Demate (min.): 50 cycles

Mechanical
MT Spring Force: 10N per ferrule

Physical
Housing: Polymer
Ferrules: MT: Glassed-filled PPS
Operating Temperature: -20 to +70°C

www.molex.com/link/elsis.html

Order No. 987652-5152 USA/0k/GF/2022.08