

Parallel Optics is the Answer to Ever-Increasing Demand on Your Network

With greater density, improved safety, higher signal quality, and cost reductions—in CapEx on day one, OpEx on day two, and even beyond—parallel optics offers dramatic benefits over wavelength division multiplexing (WDM) in creating future-ready networks.



- Lower cost
- Fewer components, quicker installation, less power



- Improved eye safety
- No high-power lasers

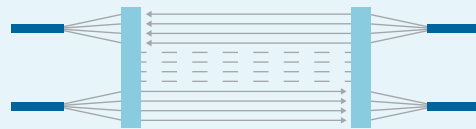


- Increased port density
- Duplex LC breakout capability

Simply Better

Parallel optics can streamline the future of your network. It's the only IEEE-approved transmission protocol for 40G and 100G.

Parallel Optics



- Signal transmitted and received over multiple fibers
- Single wavelength: No multiplexing and demultiplexing required
- No high-power lasers needed

WDM



- Signal transmitted and received over a single fiber
- Signal is divided into multiple light-color wavelengths: Multiplexing and demultiplexing required
- High-power lasers needed

High-Density Port Breakout Means CapEx and OpEx Savings

Reduce power, space, materials, installation, and MAC costs by leveraging parallel optics' port breakout capabilities.

Parallel Optics

1.5W 40G

4 x 1W 10G



30%
less power required

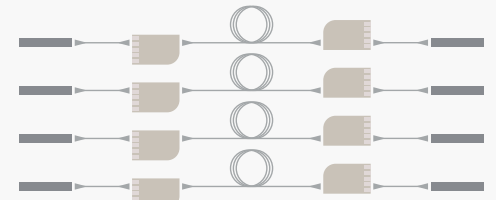
30%
less cooling required

21%
lower cost per link

WDM

4 W 4x10G

4 W 4 x 10G

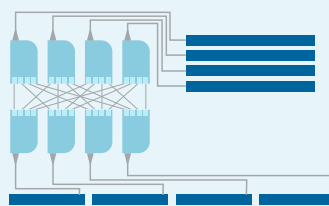


Improved Quality is a Click Away

Boost the speed and quality of your network by switching to a parallel optics-enabled spine-and-leaf architecture.

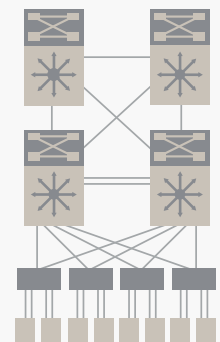
Parallel Optics Spine-and-Leaf Architecture

- Higher efficiency and lower latency
- Less bandwidth required
- Port breakout with LC patch connection or mesh module with MTP®/MPO



WDM Tree Architecture

- Bottlenecks
- Unpredictable latency
- Reduced bandwidth



Click to learn more about the benefits of parallel optics and Corning's **EDGE8**® solutions.