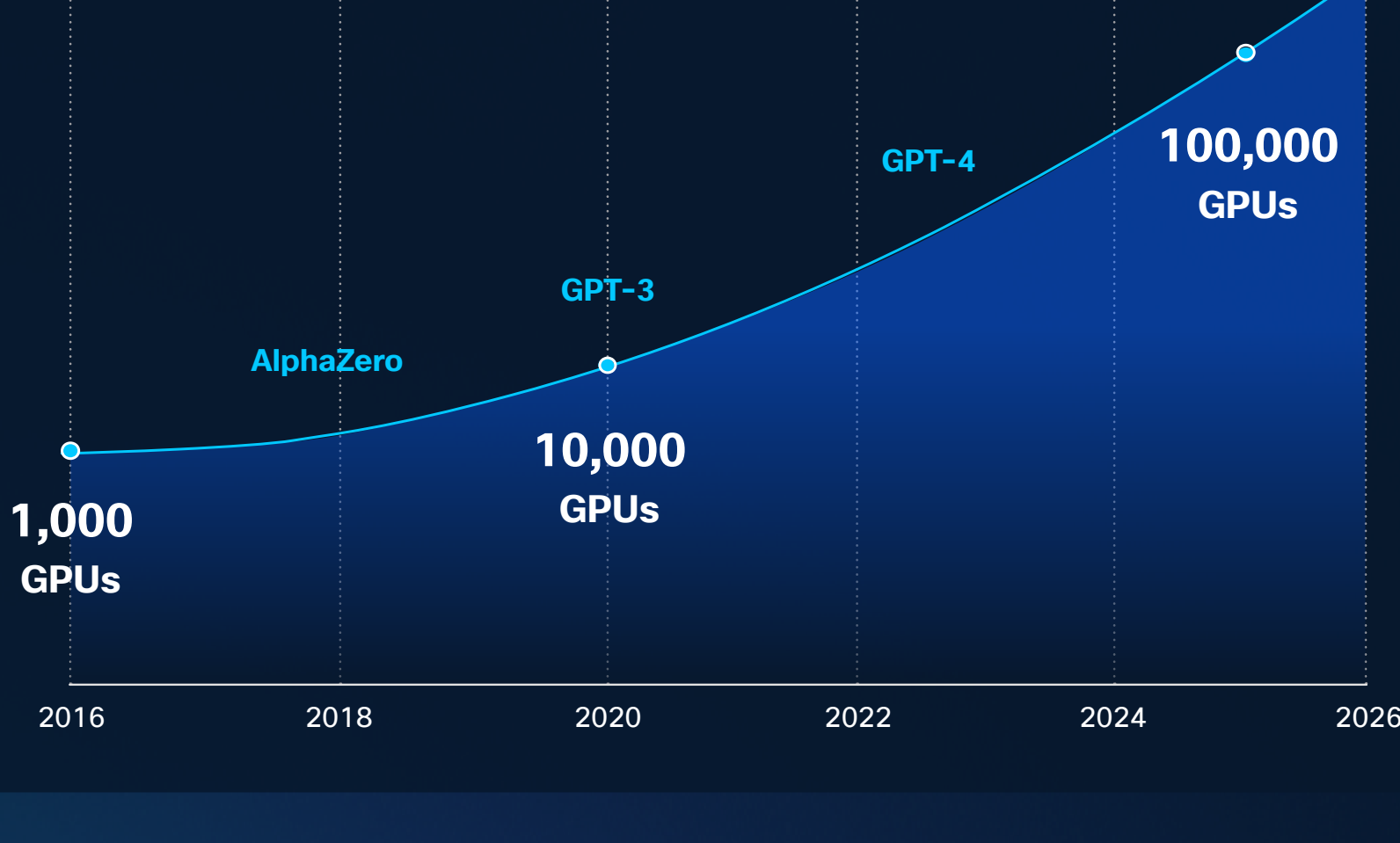


Meeting AI data center demands with innovative, reliable pluggable optics



As AI adoption soars, data centers need more GPUs in larger clusters—and more pluggable optics to connect them

Massive increase in AI cluster sizes¹



Cisco Optics deliver reliable connectivity for AI data centers

Cisco platform advantage across the entire stack helps optimize how each component works better in AI data centers



ASIC



Optics



Platforms



Software



Security and Observability

Driving innovation with Cisco Silicon Photonics design and integration



Higher performance

Integration of electronics and photonics functionality combined with advanced DSP functionality



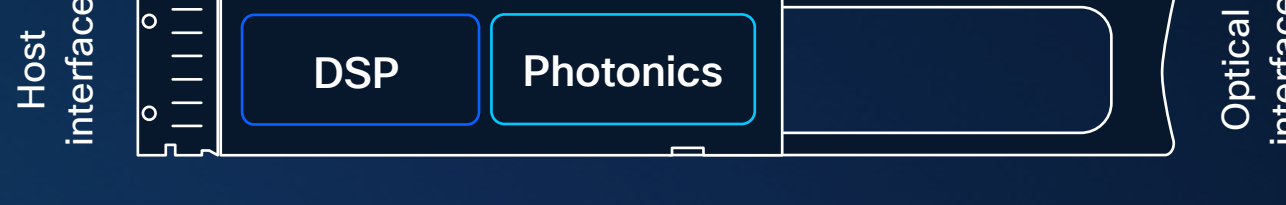
Better power efficiency

Increased component density and highly integrated designs



Increased reliability

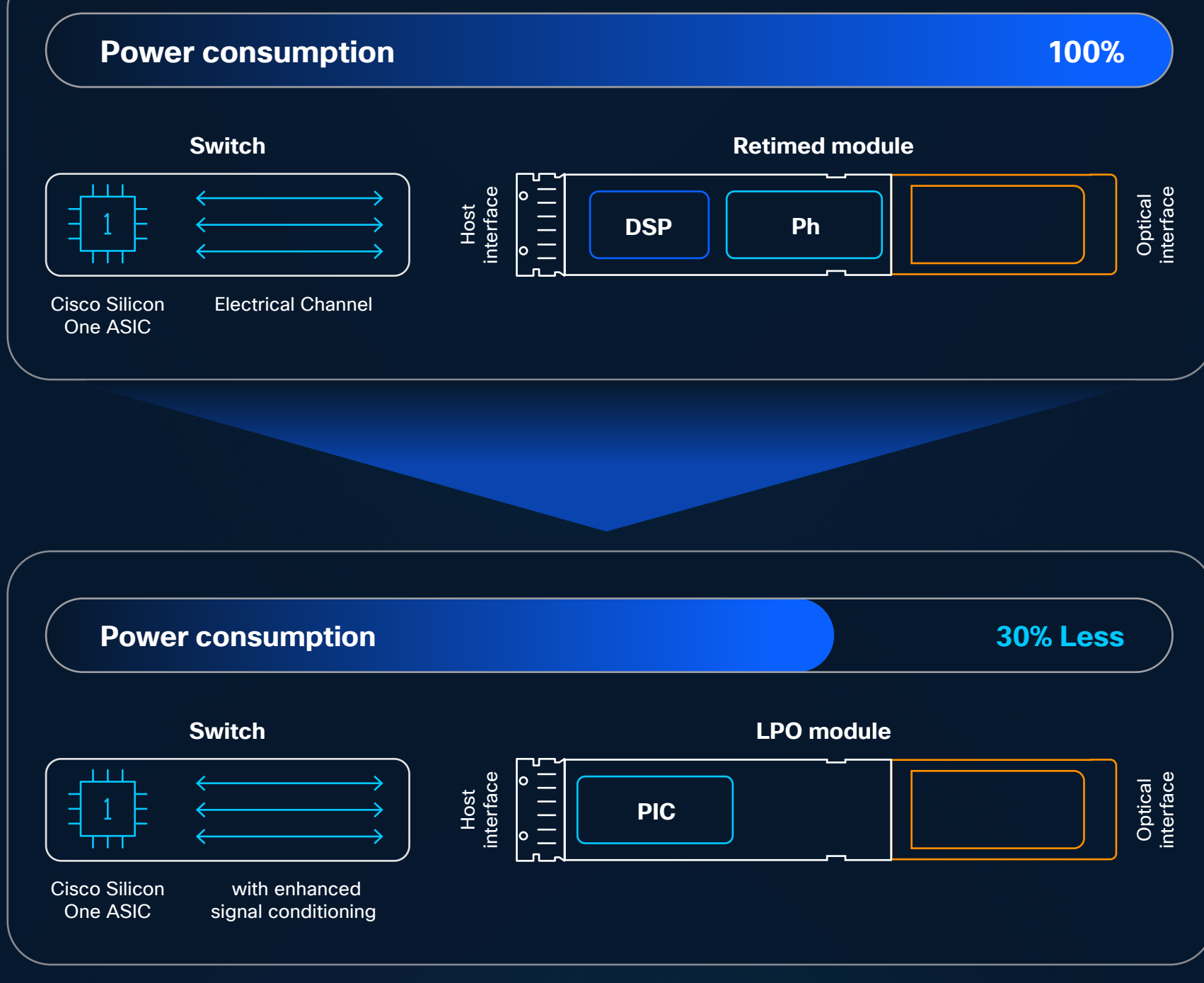
Robust semiconductor manufacturing automation and processes



Integrated designs enable faster data rates with increased efficiency

Shift power-consuming DSP and optical functionality from pluggable optics to the Cisco Silicon One Switch ASIC

Linear Pluggable Optics (LPO) reduce switch power consumption



Cisco is a founding member of the Linear Pluggable Optics (LPO) Multi-Source Agreement (MSA)

Assuring optics reliability with robust stress testing

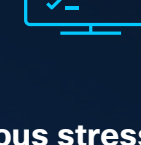
Cisco brings networking, systems and optics expertise to rigorously test optics for demanding AI environments:



Transceiver module qualification for optical, electrical, and mechanical design verification; regulatory and standards compliance



Platform level qualification for Cisco and 3rd party host platforms, and software compatibility testing



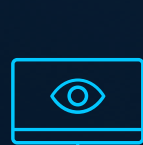
Rigorous stress testing emulates harsh AI parameters leveraging Cisco networking, systems and optics design expertise

Maximizing AI workload uptime with flexible firmware upgrades

Ensure continued performance and future-proof investment in high-speed optics



Access the latest features to manage and maintain modules



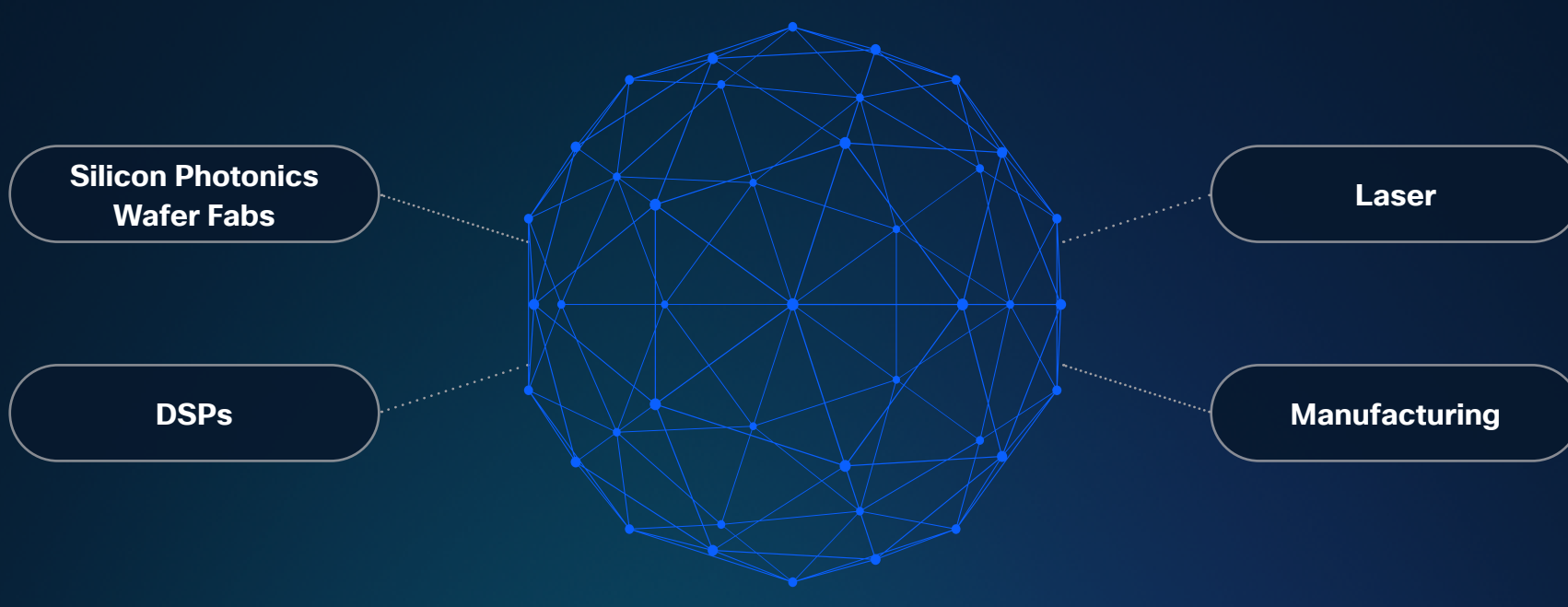
Acquire real-time visibility and monitoring of module performance



Field upgradable to minimize disruption to AI workloads

Supported by a diverse global supply chain for the most demanding AI data center infrastructure needs

Timely access to critical components | Supply chain resilience



Explore how Cisco optics can meet the unique demands for your AI data centers

To learn more, read our white paper: [The Critical Role of High-Quality Optics in AI Networks: How Cisco Delivers Reliability and Performance](#)

Visit: cisco.com/go/optics

1. Epoch AI, "AI training cluster sizes increased by more than 20x since 2016"