



SN 16000 Intelligent Optical Switching Platform

The Ultimate in Flexibility and Efficiency for Core Networks

Cost-Efficient Core Foundation

For service providers, technology choices being made now will impact long-term network costs, service differentiation, and revenue growth. Effective network solutions should leverage existing infrastructure to quickly expand service possibilities – yet provide an open path forward. The SN 16000 does both, empowering service providers to determine the pace of change.

Sycamore's flagship platform sets the industry benchmark for optical switching power, delivering high-density multiservice aggregation, highly modular architecture, and unmatched capacity (up to 2.5 Terabits) in 3 bays. Consolidating multiple functions (ADM, BB-DCS, OXC, DWDM) in one compact switching platform meets a range of applications – from metro core and inter-office facility to wireless backbone and optical core – with maximum flexibility and efficiency. From day one and in any topology, the ASON/GMPLS-compliant SN 16000 reduces operational cost and complexity, supports interworking with other technologies and vendors, and creates a robust and scalable foundation for next-generation networks and services.

Unmatched Scalability and Modularity

Configuration options ranging from a single chassis 64 x 64 (160 Gbps) to the industry's largest 1024 x 1024 (2.5 Tbps) multi-chassis form a resilient, highly scalable architecture. Interchangeable SONET/SDH and high-speed Ethernet interfaces and in-service pluggable transport optics – on a single Universal Service Card – allow unprecedented network design flexibility and pay-as-you-grow deployments. Industry-leading Ethernet port densities offer a compelling alternative to packet-over-SONET/SDH interfaces for scaling IP/data networks. From chassis configuration to service interfaces and transport optics, the SN 16000's modularity enables service providers to precisely tailor the switch to the location – today and tomorrow.

Seamless Integration, Efficient Evolution

The SN 16000 delivers all the cost savings and operational efficiencies of intelligent optical switching without disrupting existing systems and procedures. Product features based on SONET/SDH and Ethernet networking standards, and a choice of OSS interfaces, ensure seamless integration, carrier-class restoration, and high network availability.

At the same time, the SN 16000 extends support for traditional performance metrics into hybrid and mesh architectures, and allows for both automated and manual provisioning in all network topologies. Service providers can add bandwidth or turn up automated features selectively and non-disruptively, at a pace dictated by service and capacity demand. Equally important, the SN 16000's intelligent architecture enables cost-effective technology evolution, gracefully incorporating new developments in line with changing network standards, including ITU-T OTN/G.709.

Features and Benefits

- Unmatched Capacity and In-Service Scalability
- Interchangeable SONET/SDH, Ethernet Interfaces
- Highly Modular, Pay-as-You-Grow Architecture
- Ring and Mesh Protection Options, Interworking
- ASON/GMPLS-Compliant Optical Control Plane
- Foundation for End-to-End Intelligent Bandwidth Management



