UCS FAMILY
FEATURES AND BENEFITS

- Automated connections are instantaneous and guaranteed

- Scalability from 16 to >100,000 ports starting from just 1RU

- Port speed flexibility ranging from <1Mbps to >100Gbps

- Hybrid electrical and all-optical non-blocking switch fabric with no cross-talk

- Redundant, modular systems design for 99.999% availability

- Local & remote control, monitoring and fault isolation via software

- Circuit confirmation and logging for simple tracking and reporting

- Software configurable TAP ports for flexible monitoring tool use

- Media and WDM conversion for distance extension

- Ultra-low latency (< 100ns typ.) for time sensitive applications

CONSERVE TIME

- Moves, adds or changes
- Planning or troubleshooting
- Record keeping

INCREASE
UTILIZATION

- Data center equipment
- Test or monitoring tools
- Personnel productivity

SAVE MONEY

- Capital expenses
- Operating expenses
- Power, space and cooling

ONPATH 3900 SERIES.
SMALL. FLEXIBLE. FUTURE PROOF.

ONPATH's UCS™ 3900 is a family of network switching products that automates and secures data center and test infrastructure.

The platform helps network managers conserve time, increase utilization, and same money compared to manual patching or complex mesh switching architectures.

ONPATH's patented 3-stage switching technology provides the industry's most scalable and reliable switching system of up to 576 non-blocking and over 100,000 meshed ports.

The HorizON™ management and monitoring software offers the highest security and integrated diagnostics to simplify connectivity management with point-and-click provisioning and full remote control of the ONPATH 3900 system.

ONPATH 3900 PLATFORM

The ONPATH 3900 series is a family of highly flexible, scalable, and dense physical layer switching systems, designed to accommodate a variety of high-performance connectivity and monitoring applications.

Designed to be highly scalable and future proof, the platform helps network managers conserve time, increase utilization, and dramatically reduce cost.

APPLICATIONS

The ONPATH 3900 platform solves connectivity and monitoring challenges for a variety of high-performance applications:

- Cloud networking

- Network monitoring

- Test automation

- Cyber Security

ONPATH 3900 SERIES

SYSTEM	3901	3903	3912
Max # G-Blades per system	1	3	12
Max # S-Blades per system	1	3	12
Max # O-Blades per system	NA	1	6
Max # Ports per system	48	144	576

TABLE 1. Maximum capacity per system.

SMALL

The 3900 series of switches is available in 1, 3, and 12 slot compact form factors and is the highest density connectivity and monitoring solution available offering savings in rack space, power, and cooling. Each ONPATH switch blade (S-Blade or G-Blade) supports an industry leading 48 ports of connectivity and/or monitoring per rack unit, while the optical switch blade (O-Blade) supports 96 fully non-blocking ports in 2 rack units. The scalability of 3900 series stretches from 16 to 576 ports of non-blocking connectivity without wasting ports on inter switch links and leading to a flatter, simpler network. Mesh networking of multiple 3900 and 2900 systems provides scalability of over 100,000 ports.

FLEXIBLE

The ONPATH 3900 family supports a hybrid electrical and all-optical non-blocking switching fabric in the same platform. The universal S-Blades provide any-to-any connectivity, while the integrated test access ports and broadcast functions allow non-intrusive monitoring and one-to-many connectivity. Ports within the same blade can support Ethernet as well as Fibre Channel applications across a wide range of data rates from 1Gbps to 10Gbps. The all-optical O-Blades support all photonic applications ranging from analog to digital with data rates up to 100Gbps and beyond. ONPATH 3903 and 3912 systems are designed with a fully redundant architecture, including hot-swappable, field replaceable parts for the industry's highest availability.

FUTURE PROOF

The modular architecture of the UCS 3900 enables a "pay as you grow" model for the ultimate in flexibility and scalability. Each of the systems is designed to support the full capacity needed per application or site. All blades are interchangeable across any switch in the family providing investment protection as needs scale with increased connectivity and monitoring. In addition, as network speeds increase from low speeds to high speeds, the same infrastructure scales up to all current and future Ethernet and Fibre Channel speeds via simple software settings, without additional hardware costs.
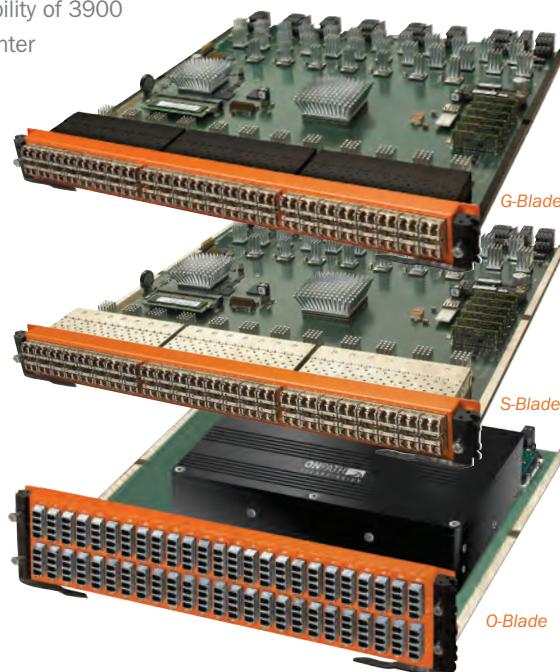
G-Blade
S-Blade
O-Blade

FIGURE 1.

G-Blade: Low-cost, GigE-only blade

S-Blade: Supports multiple protocols and speeds from 1Gbps to 10Gbps

O-Blade: Supports any single mode optical protocol from less than 1Mbps to over 100Gbps, on the same blade

3900 FEATURES AND BENEFITS

- Automated connections are instantaneous and guaranteed
- Scalability from 16 to 576 non-blocking ports across 1 slot to 12 slot systems
- Port speed flexibility ranging from 1Gbps to 10Gbps and beyond
- Hybrid electrical and all-optical switch fabric with no cross-talk
- Redundant, modular systems design for 99.999% availability
- Local & remote control, monitoring and fault isolation via software

LAN INTERFACES	SAN INTERFACES	MAN/WAN INTERFACES
Ethernet Copper: 10/100/1000Mbps	FICON: 1/2/4/8Gbps	SONET/SDH, OTN, WDM: <1 to >100Gbps
Ethernet Fiber: 1/10/40/100Gbps	Fibre Channel: 1/2/4/8/16Gbps	OTN/CWDM/DWDM 2.5/10/40/100Gbps
SM Optical: Any Speed	SM Optical: Any Speed	SM Optical: Any Speed

Port interfaces supported.

- Circuit confirmation and logging for simple tracking and reporting
- Software configurable TAP ports for flexible monitoring tool use
- Media and WDM conversion for distance extension
- Ultra-low latency (< 100ns typ.) for time sensitive applications

THE ONPATH ADVANTAGE

ONPATH Technologies is the leading provider of scalable connectivity and monitoring solutions for high-performance networks. ONPATH's Universal Connectivity System and HorizON Software deliver an advanced platform that automates and secures data center and test infrastructure to help network managers conserve time, increase utilization, and save money compared to manual patching or complex mesh switching architectures. ONPATH currently has over one million installed ports throughout Fortune 1,000 and Government customers. Contact us today for an engineering application review or network consultation.

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