FSP 3000 S-Flex™

Encrypted 400G muxponder for SAN and mission-critical networks

Benefits

- **Industry-first DWDM transport of 64GFC**
  400G muxponder with multi-service support and a CFP2-DCO pluggable coherent interface

- **Extensive Fibre Channel feature set**
  Engineered for highest SAN performance featuring low latency, Brocade trunking support and FC performance monitoring

- **Multi-rate, multi-service client flexibility**
  Full support of Ethernet (from 1GbE to 100GbE), Fibre Channel (from 16G to 64GFC) and IBM Z connectivity services with just one card

- **Quantum-safe optical transport**
  Built-in Layer 1 encryption, quantum-safe key exchange and crypto-agility for uncompromised security of data in motion

- **Proven security technology**
  Designed to meet stringent security standards for use with government, defense and critical infrastructure

- **Verified interoperability**
  Interworking was confirmed with all major DCI/SAN vendors such as IBM GDPS, Dell-EMC and Brocade

Overview

As digital transformation and digitalization gain momentum, robust and secure high-capacity optical networks are invaluable for meeting bandwidth demand and protecting against cyberattacks.

Our FSP 3000 S-Flex™ muxponder has been engineered to grow storage area networks and mission-critical infrastructure. It offers ultra-high capacity, unprecedented performance, and quantum-safe line-rate encryption.

The ever-increasing volume of hosted data creates demand for more transport capacity with enterprise data centers and mission-critical networks. Data center interconnect (DCI) solutions, storage area networks (SAN), and critical infrastructure must continuously extend the bandwidth of their networks. Moreover, the advent of quantum computers poses a new threat to data security, generating the need for a quantum-safe key exchange. Our FSP 3000 S-Flex™ has been designed to provide high-capacity transport and protect traffic against the emerging quantum threat.

FSP 3000 S-Flex™ is a 400Gbit/s DWDM muxponder that supports a wide range of services, including 64GFC as well as a wide range of Ethernet line rates. With an ultra-low latency design and comprehensive SAN services such as rich Fibre Channel features and FC trunking, the FSP 3000 S-Flex™ addresses essential SAN DCI interconnect requirements with just a single interface card. With post-quantum cryptography and crypto-agility, the FSP 3000 S-Flex™ is designed to protect mission-critical networks against future quantum computer attacks.

Our FSP 3000 S-Flex™ delivers robust and secure high-capacity transport in a compact two-slot package designed to complement the robust and comprehensive FSP 3000 platform.

FSP 3000 S-Flex™

High-level technical specifications

General information
- 400G muxponder
- 2-slot card for 1RU to 12RU chassis
- Multi-rate, multi-services
- ConnectGuard™ encryption

Client interfaces
- Wide support of different types of pluggable interfaces:
  - SFP, SFP+, SFP28, SFP56
  - QSFP28
  - QSFP56-DD

Line interface
- 400Gbit/s flexible and SW-defined coherent interface
- Flexgrid DWDM support
- CFP2-DCO pluggable module
- OpenROADM 3.0 compliant
- G.709 compliant

Client services
- Fibre Channel: 16G, 32G and 64G Fibre Channel
- IBM: RoCE 10G, CE LR
- Ethernet: 1GbE, 10GbE and 100GbE
- OTN: OTU4

Security
- Line-rate, quantum-safe encryption
- Two AES modes
- Post-quantum key exchange
- QKD and PKI support
- Crypt-agility for in-field upgrade

Fibre Channel feature set
- Brocade trunking support
- FC performance monitoring
- FC CRC check and FEC support
- FC port ID detection

Applications in your network

High-capacity, quantum-safe transport for SAN DCI and mission-critical networks

FSP 3000 S-Flex has been designed for:

- Secure, robust, feature-rich SAN data center interconnect in combination with the modular and flexible FSP 3000 DWDM platform for ultra-low latency, simple installation and ease of operations
- High-capacity transport with mission-critical networks featuring quantum-safe protection for governments, defense, finance, energy and transportation, among others.

Multi-protocol data center interconnection

For more information please visit us at www.advasecurity.com

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Product specifications are subject to change without notice or obligation.