

FSP 2000

The Scalable Enterprise Service Solution



The ADVA FSP 2000 is a Wavelength Division Multiplexing (WDM) system specifically designed for enterprises and service providers, who require a flexible, cost-effective system that will multiplex, transport and protect high-speed data, storage, voice and video applications.

Enterprise customers use the FSP 2000 to expand the reach of their network applications. Due to parallel use of Time Division Multiplexing (TDM) technology and Coarse WDM (CWDM)/Dense WDM (DWDM) up to 512 applications can be transported over one single fiber pair. The FSP 2000 supports protected or unprotected point-to-point, linear add/drop, and ring network topologies.

The FSP 2000 transparent fiber-in fiber-out interfaces support all protocols in the range from 8Mbit/s to 10Gbit/s, including SONET/SDH, Ethernet, ATM, all storage protocols, video and any proprietary protocol operating within the specified data range. The FSP 2000 system is approved to inter-operate with all leading SAN equipment vendors.

The unique channel card design of the FSP 2000 supports pluggable (SFP/XFP) interfaces on all active ports. The ability to automatically adapt data rates and configure the signal path enables all network functionalities such as media conversion, CWDM, DWDM, protection, regeneration, wavelength conversion on a single universal module. This unique design provides highest operational flexibility, simplifying installation and maintenance and reducing inventory expenditure.

A multi-stage security concept makes the FSP 2000 extremely robust against any intrusion events: An integrated monitoring function allows control of the network fiber infrastructure and identify degradation processes or fiber tapping, digital performance monitoring detects any corruption of data and a secure shell software architecture prevents unauthorized access attempts.

All systems can be managed via the FSP Element Manager and FSP Network Manager software to allow remote system operation and service provisioning. The FSP Network Planner guides through all steps of system configuration.

Cost-effective optical networking

ADVA Optical Networking designs and delivers all products with a commitment to optimize the total cost of ownership and return on investment:

- Planning and engineering
- Price
- Installation
- Operation & Maintenance
- Provisioning
- Scalability

The Fiber Service Platform (FSP) is a family of innovative products that provide comprehensive Optical+Ethernet networking solutions for access, metro core and regional networks. ADVA Optical Networking is focused on the needs of enterprise and service provider customers deploying data, storage, voice and video applications.

FEATURES + BENEFITS

- Future proof and scalable up to 64 DWDM channels to increase virtual fiber infrastructure
- Optional CWDM and CWDM+DWDM hybrid operation substantially minimize channel costs
- Support of pluggable SFP/XFP technology for CWDM and DWDM
- Support of all common enterprise applications from 8Mbit/s to 10Gbit/s for higher flexibility in service provisioning
- Remote network management and fiber monitoring through Optical Supervisory Channel
- Qualified by all major SAN vendors including IBM GDPS®, Brocade, EMC², HDS, HP and SUN

Specifications

TRANSPORT TECHNOLOGY

- TDM, CWDM, DWDM, OADM

WAVELENGTHS PER FIBER PAIR

- 1-64

SUPPORTED TOPOLOGIES

- Point-to-point, linear add/drop and ring

OPTICAL PROTECTION

- Line protection
- Card protection
- Client layer protection with dual homing

LINK DISTANCE

- Up to 200km/125miles amplified

APPLICATIONS

- Ethernet 100/1000/10000
- Fibre Channel 1/2/4/(8)/10Gbit/s
- FICON 1/2/4Gbit/s
- ESCON
- Infiniband
- ETR/CLO and STP
- Coupling Link 1/2Gbit/s
- SONET OC-3/12/48/192
- SDH STM-1/4/16/64
- ATM

CLOCK OPTIONS

- Selectable: 125Mbit/s to 10.5189Gbit/s
- Adaptive: 100 to 2500Mbit/s

OPTICS

- Local port: 850/1310nm
- CWDM: acc.to ITU-T G.694.2
- DWDM: acc.to ITU-T G.694.1
- Remote port: C/L-band
- OSC: 1310/1510/1630nm
- Local and remote optical ports support SFP/XFP technology
- All common connector types supported
- Single fiber working support
- Laser class 1

MODULES

- WDM Channel Modules (WCM)
- TDM Channel Modules (TCM)
- SFP/XFP for MM, SM, CWDM and DWDM
- DWDM Multiplexer/Demultiplexer (MDXM)
- CWDM Multiplexer/Demultiplexer (CMDXM)
- Band Splitter Modules (BSM)
- Remote Switch Modules (RSM)
- Optical Supervisory Channel Modules (OSCM)
- Optical Line Monitoring (OLM)
- Optical amplifiers (EDFA)
- Dispersion Compensation Module (DCM)
- Network Element Management Interface (NEMI)
- Device Element Management Interface (DEMI)

MANAGEMENT

- Optical Supervisory Channel (OSC)
- SNMP agent
- FSP Element Manager
- FSP Network Manager

ENVIRONMENTAL

- Temperature +5 to +45°C
- Relative humidity 10 to 90%, non-condensing

REGULATORY

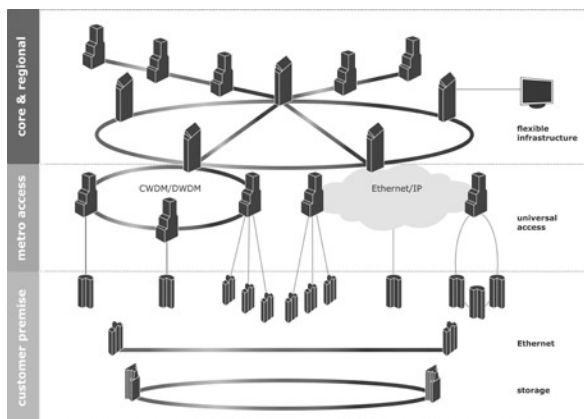
- CE, FCC, TÜV GS, UL, CUL

POWER

- Voltage 90 to 132/180 to 264VAC autoranging
- -75 to +36VDC
- Power consumption <220W

PHYSICAL

- Mounting brackets for 19", ETSI



A 3M Company

Quante
Netzwerke GmbH

ADVATM
Optical Networking

Quante Netzwerke GmbH
Ahrensburger Straße 8
D-30659 Hannover
Tel: +49 (0)511 / 74 01 92-0 ♦ Fax: +49 (0)511 / 74 01 92-100

www.quante-netzwerke.de

All products are subject to continuous research and development; we therefore reserve the right to alter technical specifications without prior notice.