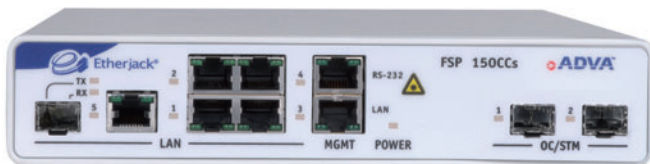


FSP 150CC-925

THE ETHERNET ACCESS PLATFORM



The ADVA Optical Networking FSP 150 family of Ethernet access products provides devices for Ethernet demarcation, extension and aggregation to support delivery of intelligent Ethernet services both in-region and out-of-region.

ADVA Optical Networking's FSP 150CC-925 provides Ethernet extension over traditional SONET/SDH OC-3/12 or STM-1/4 equipment or leased services. Smaller and less expensive than traditional MSP equipment, the customer located equipment is ideal for service provider WAN applications. It can also replace expensive SONET/SDH port cards in switches and routers in enterprise environments. Optimized for service provider applications, the product supports 1+1 facility protection and a rich set of remote Operations, Administration and Maintenance (OAM) capabilities designed to eliminate truck rolls for Ethernet service fault isolation and debugging. The device can work in book-end applications, with ADVA Optical Networking aggregation devices, as well as with industry standard switches, routers, ADMs, DCSs and other aggregation devices. With five Ethernet service ports and advanced traffic classification capabilities, the device is capable of supporting multiple customers as well as multiple services over a shared OC-3/12 or STM-1/4 infrastructure. Individual customers and services are separated within the WAN utilizing a sophisticated UNI function that includes support for VLANs and Ethernet Virtual Circuits (EVCs). Small form factor pluggable (SFP) optical devices address a wide range of optical fibers, reaches and wavelengths.

ETHERJACK®

ADVA Optical Networking's patent pending Etherjack® technology allows a carrier to deploy profitable Ethernet services by providing the industry's first intelligent Ethernet demarcation point which includes an 802.1ag/802.3ah aligned Network Interface Device (NID) or Network Termination Equipment (NTE) for OAM functionality plus an MEF aligned User Network Interface (UNI) for providing advanced services definition. The Etherjack® NID includes: Etherjack® Connection Performance Analyzer (ECPA) along with port level and VLAN level loopbacks to enable a carrier to remotely diagnose faults and verify Ethernet Virtual Connection (EVC) SLA conformance using RFC-2544 test suites. In addition, Etherjack® Service Assurance (ESA) provides in-service SLA monitoring critical for offering carrier grade Ethernet services. The Etherjack® service UNI provides service intelligence necessary for defining CIR, PIR and burst size of individual ports, priorities or VLANs. It uses 802.1p, 802.1q, TOS or DSCP to classify traffic into EVCs, VLANs or priority level. ADVA Optical Networking's unique demarcation function enables carriers to provide differentiated profitable Ethernet services.

The FSP product family provides 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

- Flexible demarcation device extends Ethernet reach off-net over leased OC-3/12 or STM-1/4 lines
- Adds Ethernet capability to existing ADMs, radios and other transport infrastructure
- Supports multi-customer or multi-service applications with multiple 10/100/1000BaseT Ethernet ports and flexible VLAN tagging capabilities
- Standard GFP and X.86 (LAPS) encapsulations interoperates with a wide variety of data switching, routing, aggregation and transport equipment
- Virtual concatenation (VCAT) and circuit bonding ensures "right sized" data payloads
- Incorporates advanced Etherjack® demarcation technology for carrier grade OAM and SLA visibility
- In-band and out-of-band management options for remote management (CLI, GUI and SNMP)

SPECIFICATIONS



SERVICE INTERFACES (LAN)

- 10/100BaseT (4)
 - 10/100/1000BaseT
- or
- 100/1000BaseX SFP

NETWORK INTERFACE (WAN)

- 1+1 OC-3/STM-1 or OC-12/STM-4
- GFP, GFP-FCS, X.86 (LAPS) encapsulation
- LCAS, VCAT support of VC-3, VC-4 and STS-1

ETHERJACK® DEMARCATION

- NID/NTE for OAM&P
 - Aligned with EFM (802.3ah)
 - ESA monitoring for in-service SLA verification
 - RMON Etherstats and extensions for monitoring both sides of demarcation point
 - Port and VLAN level loopbacks
 - ECPA test suite generator and analyzer (RFC-2544)
 - Cable integrity test for customer premise
 - Fault propagation for remote visibility of failures
 - Dying gasp message for power failure visibility
- MEF UNI for advanced service definition
 - MEF 9 and 14 certified
 - CIR/PIR/Burstsize on port, VLAN (EVC) or priority basis
 - Ingress policing and egress shaping w/64k resolution
 - Traffic classification/priority based on TOS/DSCP/802.1P/802.1Q
 - 31 flows for traffic management
 - Low latency queue for VoIP/video services
 - 802.1Q VLAN: forwarding, swapping, stacking (802.1Q-in-Q)
 - 802.3x (pause)
 - Provisionable control protocol disposition

MANAGEMENT & SECURITY

- CLI, HTTP(S)/GUI and SNMPv1, v2c, v3
- Serial and Ethernet ports for local management
- Local connectors: 10/100BaseT Ethernet RJ-45, Serial RJ-48
- Management tunnels and EFMOAM for remote management
- IP routing (static, RIP)
- DHCP
- RADIUS password management (client)
- Database backup and restore
- Auto provisioning
- Software download via FTP or HTTPS
- TACACS & RADIUS password management (client)
- Multi Server Syslog
- Access Control List (ACL)

ENVIRONMENTAL

- Operating: 0 to +50°C
- Storage: -40 to +70°C
- Humidity: 5 to 95%, non-condensing

REGULATORY

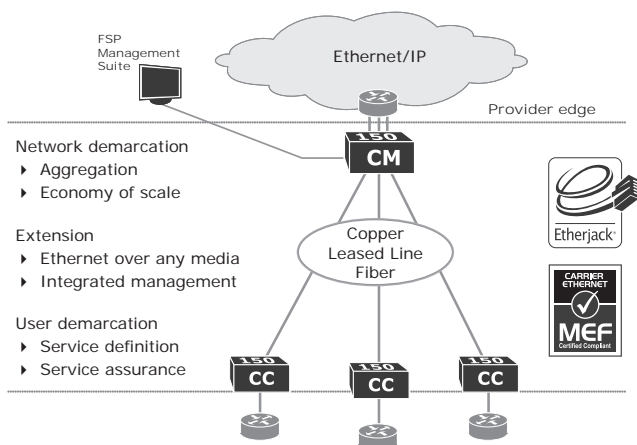
- UL/cUL/EN 60950
- FCC Part 15, Class B
- Industry Canada CS-03
- CISPR
- CE Mark
- VCCI
- TUV
- AS/NZS

POWER

- 120 to 240VAC, 50 to 60Hz
- -48VDC
- 12VDC

PHYSICAL

- Dimensions:
 - 44mm H x 216mm W x 254mm D
 - 1.75" H x 8.5" W x 10" D
- Mounting: wall, rack or desk



For more information please contact an ADVA Optical Networking consultant or visit us at www.advaoptical.com

Data sheet, version 07/2009

ADVATM
Optical Networking