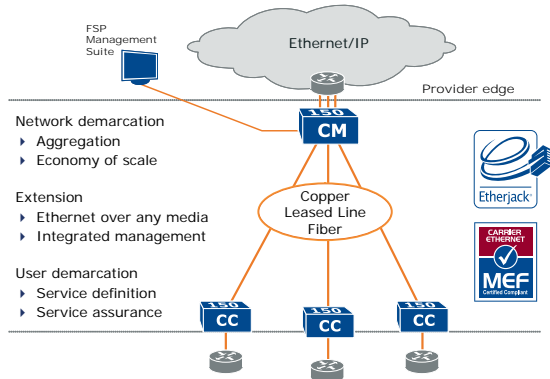


# FSP 150CC

## THE ETHERNET ACCESS PLATFORM



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.

The ADVA FSP 150 family of Carrier Ethernet access products provides devices for Ethernet service demarcation, extension and aggregation to support delivery of intelligent Ethernet services both in-region and out-of-region. It allows service providers to ubiquitously deliver differentiated Ethernet services to customers in business and transport applications.

Deploying FSP 150CC devices in service-demarcation and network-termination applications enables service providers to deliver ubiquitous Ethernet services over a wide range of Ethernet transport alternatives. These include the extension of Ethernet services over fiber, PDH and SONET/SDH facilities. Service providers deploying the FSP 150CC in their network can support multi-site enterprise applications over a variety of leased or owned facilities, while providing a common and consistent customer experience guaranteed by the Etherjack® demarcation technology.

ADVA Optical Networking's patent-pending Etherjack® demarcation technology allows a carrier to provide an intelligent Ethernet service demarcation point compliant with the latest OAM standards such as 802.3ah, 802.1ag, Y.1731 and RFC 2544. Combined with an MEF-certified UNI, the FSP 150CC enables carriers to deliver Ethernet services that can be remotely monitored and managed with a minimal number of truck rolls. It provides the service intelligence necessary to encourage enterprises to make the switch from Frame Relay, Private Line and ATM to a carrier-class Ethernet service.

Individual customers and services are separated utilizing the sophisticated UNI function that includes support for Ethernet Virtual Circuits (EVC) as well as hierarchical Quality of Service (QoS) management. Verification of Service Level Agreements (SLAs) can be performed on a per-service basis to ensure high service availability for mission-critical applications. As Carrier Ethernet networks scale, low-touch provisioning capabilities become essential to ensure cost-efficient service rollout and significantly reduce the need for truck rolls. With the extensive set of standards-based auto-configuration functions and remote OAM capabilities, unskilled craft personnel can install and turn-up services without onsite provisioning.

Combined with the FSP 150CM, the family's External Network-to-Network Interface (E-NNI) solution, large-scale wholesale applications are supported with a modular shelf optimized for central office handover and capable of supporting multiple services with a single management interface.

ADVA Optical Networking designs and delivers all products with a commitment to optimize the total cost of ownership and return on investment. Leveraging the latest technologies for accelerating planning, simplifying installation and provisioning, streamlining network operations and increasing energy efficiency enables cost-effective and profitable Optical+Ethernet networking.

### FEATURES + BENEFITS

- Is ideal for E-Line, E-LAN and E-tree services such as Internet access, Private Line, VoIP, video and mobile backhaul; enables MEF-certifiable services
- Supports Ethernet extension over fiber, PDH or SONET/SDH for delivery of ubiquitous Ethernet services both in-region and out-of-region and addresses multi-site applications
- Comprehensive, MEF-certified User Network Interface (UNI) provides for advanced service definition and service intelligence elementary for integrated service delivery
- Standards-compliant Etherjack® demarcation technology provides support of stringent Service Level Agreements (SLAs) and integrates with a wide range of network management tools for back-office SLA support
- Option for network interface protection, redundant power supplies and temperature hardening matches requirements for highest service availability (99.999%)
- Low-touch provisioning capability via in-band management ensures that unskilled craft personnel can install and turn-up services without any onsite provisioning

# PRODUCT REFERENCE GUIDE



## ETHERNET OVER TDM



FSP 150CC-584



FSP 150CC-324



FSP 150CC-925

Applications	Service IF	Network IF
Intelligent Ethernet service extension over up to eight T1/E1s for services up to 12 or 16Mbit/s	<ul style="list-style-type: none"> <li>3 ports 10/100BaseT</li> <li>1 port 10/100BaseT or 100BaseX</li> </ul>	<ul style="list-style-type: none"> <li>8 x T1/E1 bonding using GFP/VCAT/LCAS or BCP/PPP/MLPPP encapsulation</li> </ul>
Intelligent Ethernet service extension over one or two T3/E3s for services up to 90Mbit/s or 68Mbit/s	<ul style="list-style-type: none"> <li>3 ports 10/100BaseT</li> <li>1 port 10/100BaseT or 100BaseX</li> </ul>	<ul style="list-style-type: none"> <li>2 x T3/E3 bonding using GFP/VCAT/LCAS or X.86 LAPS encapsulation</li> </ul>
Intelligent Ethernet service extension over OC-3/12 or STM-1/4 for services up to 622Mbit/s	<ul style="list-style-type: none"> <li>4 ports 10/100BaseT</li> <li>1 port 10/100/1000BaseT or 100/1000BaseX</li> </ul>	<ul style="list-style-type: none"> <li>1+1 protected OC-3/12 or STM-1/4 using GFP/VCAT/LCAS or X.86 LAPS encapsulation</li> </ul>

## NATIVE ETHERNET



FSP 150CC-825






FSP 150CC-GE201



FSP 150CC-GE206

Applications	Service IF	Network IF
Intelligent Ethernet service demarcation and extension over fiber for services up to 1Gbit/s	<ul style="list-style-type: none"> <li>4 ports 10/100BaseT</li> <li>1 port 10/100/1000BaseT or 100/1000BaseX</li> </ul>	<ul style="list-style-type: none"> <li>1:1 protected 100/1000BaseT or 100/1000BaseX</li> </ul>
Cost-efficient delivery of intelligent Ethernet services and synchronization over fiber	<ul style="list-style-type: none"> <li>1 port 10/100/1000BaseT or 100/1000BaseX</li> </ul>	<ul style="list-style-type: none"> <li>1:1 or 1+1 protected 100/1000BaseT or 100/1000BaseX</li> </ul>
Delivery of intelligent Ethernet services and highly accurate synchronization over fiber	<ul style="list-style-type: none"> <li>6 ports 10/100/1000BaseT or 100/1000BaseX</li> </ul>	<ul style="list-style-type: none"> <li>1:1 or 1+1 protected 100/1000BaseX</li> </ul>

## ADVA OPTICAL NETWORKING SOLUTIONS

core & regional	<ul style="list-style-type: none"> <li>▶ Long haul transport</li> <li>▶ Metro core transport</li> <li>▶ Packet optical transport</li> </ul> 
metro access	<ul style="list-style-type: none"> <li>▶ Wireline backhaul</li> <li>▶ Wireless backhaul</li> <li>▶ Ethernet access</li> </ul> 
customer premise	<ul style="list-style-type: none"> <li>▶ Grid/Cloud computing</li> <li>▶ SAN connectivity</li> <li>▶ Corporate backbone</li> </ul> 

For more information please contact an ADVA Optical Networking consultant or visit us at [www.advaoptical.com](http://www.advaoptical.com)

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**ADVA**<sup>TM</sup>  
Optical Networking