

# FLASHWAVE® 4100 ES Micro Packet Optical Networking Platform

## Optimal for the Network Edge or Customer Premises

FLASHWAVE® 4100 platforms are in service across tens of thousands of locations, such as central offices, cell sites, outside-plant cabinets and cable distribution networks. The platform is also widely deployed on customer premises in rack, cabinet and wall-mount configurations.

Configured in conjunction with a FLASHWAVE 4000 series Multiservice Provisioning Platform (MSPP) or FLASHWAVE 7000 series Wavelength Division Multiplexing (WDM) system, the FLASHWAVE 4100 ES platform improves slot cost-to-value ratio. Used with the FLASHWAVE 9500 Packet OMP EoX Gateway configuration, the platform provides a complete backhaul, aggregation and service delivery solution over Ethernet or SONET network facilities.

### Key Platform Features

The FLASHWAVE 4100 ES Micro Packet Optical Networking Platform (MPacket OMP) is the optimal solution for the network edge or customer premises, offering:

- 10G access network element using OC-192 with full band tunable optics
- Smooth, economical migration from legacy SONET to next-generation packet optical networking
- Service delivery for high concentrations of 100FX and GE Connection-Oriented Ethernet (COE), DS1, DS3, EC1, OC-3, OC-12 and OC-48 services
- Flexible COE over Ethernet and SONET resulting in long-term investment protection
- Complete solution for high-performance 2G/3G/4G cell site access and aggregation deployments, mobile/business backhaul and utility telecom applications

- Environmentally hardened 2RU all industrial-grade platform with modular flexibility that cost-effectively addresses a broad range of demanding applications
- Metro Ethernet Forum (MEF)-compliant Ethernet Private Line (EPL) and Ethernet Virtual Private Line (EVPL) services

### One Platform Combines COE, TDM Access, Self-Healing Resilient Hardware, and Aggregation

The COE and TDM capabilities of the FLASHWAVE 4100 ES system are optimized for 2G/3G/4G mobile backhaul, wholesale Ethernet access, high-density metro Ethernet business services, and backhaul of triple play services, including broadband Internet access from DSLAM, PON or CMTS equipment, ensuring the highest standards of reliability and service transport.

### COE Service Unit

The COE service unit combines SONET attributes such as extremely low-latency, jitter and frame loss with the flexibility, scalability and dynamic bandwidth allocation of Ethernet. The unit provides:

- Guaranteed bandwidth (GIR) per Ethernet Virtual Connection (EVC)
- Four classes of service with dynamic bandwidth allocation between services
- Integrated Y.1731 fault management and performance measurement responder eliminates external NIDs at remote locations
- Ethernet service multiplexing (aggregation) with resilient hardware
- VLAN ID mapping/translation
- COE network operation on any port with optional 1:1 LAG facility protection
- Metro Ethernet Forum (MEF)-certified Ethernet Private Line (EPL) and Ethernet Virtual Private Line (EVPL) services

**FLASHWAVE 4100 ES  
Micro Packet OMP  
with multiple  
service options**



# Fujitsu Flashwave 4100 Turn Up Guide

**D Kirk**



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