

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 ONP 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 (Packet ONP) 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, mobiler/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 (CIR) 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 ONP
with multiple
service options**



Flashwave 4100es Installation Manual

Jianjun Gao



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