

# 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**



# Flashwave 4100es Installation Manual

**M Walker**



## **Flashwave 4100es Installation Manual:**

This book delves into Flashwave 4100es Installation Manual. Flashwave 4100es Installation Manual is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Flashwave 4100es Installation Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Flashwave 4100es Installation Manual
    - Chapter 2: Essential Elements of Flashwave 4100es Installation Manual
    - Chapter 3: Flashwave 4100es Installation Manual in Everyday Life
    - Chapter 4: Flashwave 4100es Installation Manual in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Flashwave 4100es Installation Manual. This chapter will explore what Flashwave 4100es Installation Manual is, why Flashwave 4100es Installation Manual is vital, and how to effectively learn about Flashwave 4100es Installation Manual.
  3. In chapter 2, this book will delve into the foundational concepts of Flashwave 4100es Installation Manual. The second chapter will elucidate the essential principles that need to be understood to grasp Flashwave 4100es Installation Manual in its entirety.
  4. In chapter 3, the author will examine the practical applications of Flashwave 4100es Installation Manual in daily life. This chapter will showcase real-world examples of how Flashwave 4100es Installation Manual can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Flashwave 4100es Installation Manual in specific contexts. The fourth chapter will explore how Flashwave 4100es Installation Manual is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Flashwave 4100es Installation Manual. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Flashwave 4100es Installation Manual.

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### **Flashwave 4100es Installation Manual Introduction**

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