

# FLASHWAVE® 4500

## Multiservice Provisioning Platform

### Features and specifications

|               |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Architectures | <ul style="list-style-type: none"> <li>Terminal</li> <li>Linear ADM (1+1)</li> <li>Unidirectional Path Switched Ring (UPSR)</li> <li>Two Fiber-Bidirectional Line Switched Ring (2F-BLSR)</li> <li>Four Fiber-Bidirectional Line Switched Ring (4F-BLSR)</li> <li>Dedicated Path Protected Mesh (DPPM)</li> <li>Resilient Packet Ring (RPR)</li> </ul> |                                                                                                                                                                                                |
| Interfaces    | DS1                                                                                                                                                                                                                                                                                                                                                    | 64-pin AMP® OHAMP connectors                                                                                                                                                                   |
|               | DS3/EC1                                                                                                                                                                                                                                                                                                                                                | BNC connectors                                                                                                                                                                                 |
|               | OC-3/STM-1                                                                                                                                                                                                                                                                                                                                             | SC for dual unit; LC for quad unit; MPO connector for 8-port unit<br>1310 nm wideband                                                                                                          |
|               | OC-12/STM-4                                                                                                                                                                                                                                                                                                                                            | LC, FC, SC or ST for single unit; LC for quad unit; MPO connector for 8-port unit<br>1310 nm wideband<br>1550 nm wideband (single unit only)                                                   |
|               | OC-48/STM-16                                                                                                                                                                                                                                                                                                                                           | LC, FC, SC or ST connectors<br>1310 nm wideband<br>1550 nm tunable narrowband<br>(8 λ @ 50 GHz)                                                                                                |
|               | OC-192/STM-64                                                                                                                                                                                                                                                                                                                                          | LC, FC, SC or ST connectors<br>1310 nm wideband; 1550 nm wideband<br>1550 nm tunable narrowband<br>(4 λ @ 100 GHz)<br>1550 nm full band tunable to 88 λ,<br>(@ 50-GHz spacing) G.709 compliant |
| Switching     | Ethernet (EoS)                                                                                                                                                                                                                                                                                                                                         | RJ-45 connectors for 10/100Base-T Ethernet; LC or SC connectors for Gigabit Ethernet                                                                                                           |
|               | Ethernet Aggregation (trunking port, RPR)                                                                                                                                                                                                                                                                                                              | LC connectors for dual port unit 850 nm wideband; 1310 nm wideband<br>High/Low Order Aggregation                                                                                               |

| Maximum Switching Capacity |                       |                               |                           |                           |
|----------------------------|-----------------------|-------------------------------|---------------------------|---------------------------|
| Specification              | Single MSPP           | Main Shelf MSPP/MSPP          | Double Shelf MSPP         | Triple Shelf MSPP         |
| Switch Capacity            | 70 Gbps               | 140 Gbps                      | 220 Gbps                  | 300 Gbps                  |
| STS-1 Cross-Connects       | 1344 x 1344           | 2688 x 2688*<br>5760 x 5760** | 5760 x 5760               | 5760 x 5760               |
| VT1.5 Cross-Connects       | 5376 x 5376 (10 Gbps) | 21,504 x 21,504 (40 Gbps)     | 21,504 x 21,504 (40 Gbps) | 21,504 x 21,504 (40 Gbps) |

\* Requires 140 Gbps switch fabric

\*\* Requires 300 Gbps switch fabric

|                 |                                                                                                                                                                                                                                                        |                                                                         |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Protection      | DS1                                                                                                                                                                                                                                                    | 1+1 or unprotected                                                      |
|                 | DS3/EC1                                                                                                                                                                                                                                                | 1:n (n=1 to 6) or unprotected                                           |
|                 | DS3 Transmux                                                                                                                                                                                                                                           | 1+1 or 1:n (n=1 to 6)                                                   |
|                 | OC-3/STM-1                                                                                                                                                                                                                                             | 1+1, UPSR, DPPM or unprotected                                          |
|                 | OC-12/STM-4                                                                                                                                                                                                                                            | 1+1, UPSR, DPPM or unprotected                                          |
|                 | OC-48/STM-16                                                                                                                                                                                                                                           | 1+1, UPSR, 2F-BLSR, DPPM or unprotected                                 |
| Synchronization | OC-192/STM-64                                                                                                                                                                                                                                          | 1+1, UPSR, 2F-BLSR, 4F-BLSR, DPPM or unprotected                        |
|                 | Ethernet                                                                                                                                                                                                                                               | RPR or unprotected<br>Port Link Aggregation or<br>Unit Link Aggregation |
|                 | Switch matrices                                                                                                                                                                                                                                        | 1+1                                                                     |
| Synchronization | Synchronization                                                                                                                                                                                                                                        | 1+1                                                                     |
|                 | <ul style="list-style-type: none"> <li>Internal Stratum 3 timing source</li> <li>Synchronization Status Messaging (SSM)</li> <li>DS1 Building Integrated Timing Supply (BITS) primary and secondary clock output/input</li> <li>Line timing</li> </ul> |                                                                         |

| Maximum Number of Unprotected (Protected) Service Interfaces |             |                        |                   |                   |
|--------------------------------------------------------------|-------------|------------------------|-------------------|-------------------|
| Type                                                         | Ports/ Card | Single Shelf MSPP/MSPP | Double Shelf MSPP | Triple Shelf MSPP |
| DS1 (Integrated)                                             | 28          | 84 (84)                | 168 (168)         | 252 (252)         |
| DS1 (High-Density)                                           | 168         | 6720                   | 13,440            | 20,160            |
| DS3/EC1                                                      | 8           | 96 (96)                | 192 (192)         | 288 (288)         |
| DS3 Transmux                                                 | 12          | 144                    | 288               | 432               |
| OC-3/3c/STM-1                                                | 8           | 160 (80)               | 320 (160)         | 480 (240)         |
| OC-12/12c/STM-4                                              | 8           | 160 (80)               | 320 (160)         | 480 (240)         |
| OC-48/48c/STM-16                                             | 2           | 40 (20)                | 80 (40)           | 120 (60)          |
| OC-192/192c/STM-64                                           | 1           | 10 (5)                 | 20 (10)           | 30 (15)           |
| 10/100Base-T Ethernet                                        | 4 (8)       | 80                     | 160               | 240               |
| Gigabit Ethernet                                             | 2           | 40                     | 80                | 120               |

# Flashwave 4500 Manual

**ML Morrison**



## **Flashwave 4500 Manual:**

Flashwave 4500 Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. Flashwave 4500 Manual : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Flashwave 4500 Manual : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## Table of Contents Flashwave 4500 Manual

1. Understanding the eBook Flashwave 4500 Manual
  - The Rise of Digital Reading Flashwave 4500 Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Flashwave 4500 Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Flashwave 4500 Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Flashwave 4500 Manual
  - Personalized Recommendations
  - Flashwave 4500 Manual User Reviews and Ratings
  - Flashwave 4500 Manual and Bestseller Lists
5. Accessing Flashwave 4500 Manual Free and Paid eBooks
  - Flashwave 4500 Manual Public Domain eBooks
  - Flashwave 4500 Manual eBook Subscription Services
  - Flashwave 4500 Manual Budget-Friendly Options
6. Navigating Flashwave 4500 Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Flashwave 4500 Manual Compatibility with Devices
  - Flashwave 4500 Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Flashwave 4500 Manual
  - Highlighting and Note-Taking Flashwave 4500 Manual
  - Interactive Elements Flashwave 4500 Manual
8. Staying Engaged with Flashwave 4500 Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Flashwave 4500 Manual
- 9. Balancing eBooks and Physical Books Flashwave 4500 Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Flashwave 4500 Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Flashwave 4500 Manual
  - Setting Reading Goals Flashwave 4500 Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Flashwave 4500 Manual
  - Fact-Checking eBook Content of Flashwave 4500 Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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