- **Ultra Long Haul**
- **Ultra High Capacity**
- **Self Tuning Network**
- **OADM Functionality**

## Flexible Solutions Build Superior Networks

The FLASHWAVE® 7700 Ultra Long Haul and Ultra High Capacity Dense Wavelength Division Multiplexing (DWDM) transport solution offers one of the industry's lowest power and space requirements. Our FLASHWAVE 7700 platform provides an economical transport choice for your long haul networks around the world allowing you to:

- Support Ultra Long Haul transmission up to 4,000 km
- Provide Ultra High Capacity transport scalable to 3.52 Tbps
- Optimize all fiber types by supporting C and L bands
- Reduce initial turn-up and provisioning time with Self Tuning Networks
- Lower maintenance costs with Self Tuning Networks
- Provide economies for all traffic types with universal service channels

Additionally, non-restrictive and non-banding wavelength services allow you to add and drop traffic without losing channels or impacting your overall system budget.

## Innovations Lower Total Cost of Ownership

The FLASHWAVE 7700 DWDM solution lowers your total cost of ownership with product innovations that minimize power consumption, reduce your space footprint, support C and L bands, provide Self Tuning Network capabilities and deliver industry-leading reliability—all from a single platform.

Dramatically reduce your space and power requirements by installing the FLASHWAVE 7700 platform—one of the smallest footprints per wavelength solutions in the industry. When combined with the FLASHWAVE 7300 transponders, the FLASHWAVE 7700 platform allows you to transport 176 wavelengths in five racks drawing only 3.52 watts per gigabit. Regardless of your installed fiber plant, you can selectively deploy the FLASHWAVE 7700 platform with C and/or L bands to fully utilize available bandwidth—giving you the flexibility to operate on LS, DSF, SMF or NZ-DSF.

Use the Self Tuning Network features to ensure your DWDM network is continuously and automatically adjusting for peak performance—dramatically reducing your turn-up and provisioning time while minimizing the need for preventative maintenance. Further reduce your total cost of ownership with powerful inventory savings and shorten the operations learning curve with the platform that provides many capacity-to-distance options.

## Experience Provides Advanced Solutions

Fujitsu has been developing carrier-class equipment for decades and consistently strives to lower your operations cost and extend your capabilities through innovative solutions. The FLASHWAVE 7700 platform delivers more bandwidth to distance options in less space than any other DWDM product available today.

Our globally proven FLASHWAVE 7700 system provides Ultra Long Haul and Ultra High Capacity DWDM transport - all from a single platform - while providing advanced features you need to deliver efficient and cost-effective transport services.

You will receive complete platform and deployment flexibility with full access Optical Add/Drop Multiplexer (OADM) functionality for exceptional customer service. Further boost your customer service levels with industry leading service velocity that minimizes your turn-up time and maximizes your revenue opportunities through Self Tuning Network capabilities. Fujitsu understands the importance of maximizing your return on investment. Our expertise and dedication in the telecom industry ensures that we will continue to provide the most competitive and technologically advanced solutions with dramatically low total cost of ownership metrics for your growing network.

*FLASHWAVE*™

FUJITSU

THE POSSIBILITIES ARE INFINITE

# Features and Specifications

## Interfaces
- OC-768/STM 256
- OC-192/STM-64
- OC-48/STM-16
- Rate Adaptive: OC-48/12/3 and STM-16/4/1
- Bit Rate Independent (100 Mbps to 3 Gbps)
- 10 Gigabit Ethernet
- Gigabit Ethernet

## Optical Add/Drop Functionality
- Optical Add/Drop Multiplexer (OADM)
- Passive Optical Add/Drop Multiplexer (POADM)
- Reconfigurable Optical Add/Drop Multiplexer (ROADM)

## Fiber
- LS, DSF, SMF and NZ-DSF

## Operations
- TL1 protocol over OSI/LCN or IP/LCN
- Local and remote provisioning
- Software download and remote memory backup
- FLEXR® GT craft interface and NETSMART™ 1500 software with CORBA uplink
- OSC with DCC, orderwire and user channels

## Optical Connector Type
- LC

## Power Consumption
- Terminal system          810.6 W typical for 176 channels
- ILA system               621.8 W typical for 176 channels
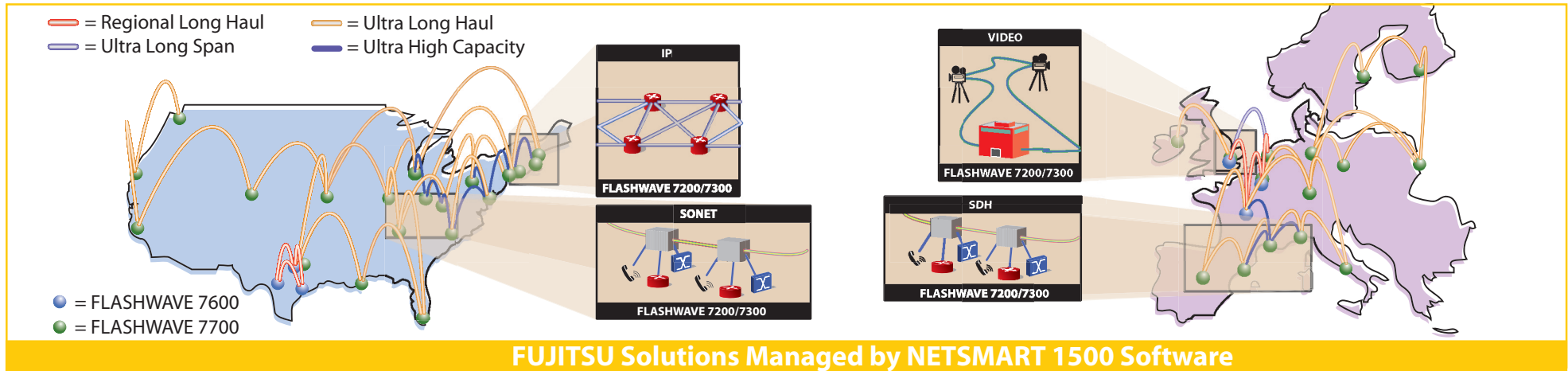
## Operating Environment
- Temperature          0° to 50℃ (32° to 122°F)
- Humidity             5% to 95% (non-condensing)
- Compliance           NEBS, CE Mark and Safety, ANSI, ETSI

## Physical Characteristics (176 Channels)

| (ANSI/ETSI standards) | (HxWxD) |
|---|---|
| Channel Shelf | 15.75 x 21.26 x 12"<br>600 x 500 x 280mm |
| Management Complex Shelf | 14.0 x 21.26 x 12"<br>575 x 500 x 280mm |
| Band Amplifier Shelf | 17.5 x 21.26 x 12"<br>625 x 500 x 280mm |
| Raman Amplifier Shelf | 19.25 x 21.26 x 12"<br>625 x 500 x 280mm |
| Dispersion Compensation Shelf | 3.5 x 21.26 x 12"<br>100 x 500 x 280mm |

*Features and Specifications subject to change without notice.*



= Regional Long Haul
= Ultra Long Haul
= Ultra Long Span
= Ultra High Capacity

IP
FLASHWAVE 7200/7300

VIDEO
FLASHWAVE 7200/7300

SONET
FLASHWAVE 7200/7300

SDH
FLASHWAVE 7200/7300

= FLASHWAVE 7600
= FLASHWAVE 7700

**FUJITSU Solutions Managed by NETSMART 1500 Software**