

14 Slot Multi-Purpose Optical Platform with Centralized Management

WaveReady™ 3500-F



Key Features

- Front access for optical module and application provisioning, including fiber management
- Centralized alarming - dry contact, TL1, and SNMP
- Centralized management access through a WaveReady communications module - Ethernet (three RJ-45 ports) and RS-232 (DB-9 connector)
- Multiple shelves can be cascaded using the Ethernet ports on a communications module
- NEBS level 3

Applications

- Wavelength services and metro optical access overlay
- Complete CWDM and DWDM systems
- Point-to-point or hub and spoke applications for wavelengths services in conjunction with the WaveReady 3100 platform

Compliance

- FCC Part 15 (Class A); UL 60950 3rd Edition, December 2000; CAN/CSA-C22.2 No. 950-95; NEBS Level 3; GR-63-CORE; GR-1089-CORE; GR-78-CORE; CE; IEC 60950; ETS300-386; EN 55022 (Class B); 73/23/EEC

The WaveReady 3500-F is a fan-cooled optical provisioning platform targeted for metro access/edge and Inter-Office Fiber (IOF) applications. It accommodates up to 13 WaveReady modules managed by a WaveReady communications module in slot C.

The WaveReady 3500-F supports a broad range of WaveReady modules including the WSH-200 series transponders, WSH-500 series any-rate transponders, WRT-700 series multirate transponders, with and without protection, and single channel and multichannel DWDM amplifiers. It also supports DWDM and CWDM mux/demux cassettes and or one, two-, or four-channel OADM cassettes.

The WaveReady 3500-F provides power, cooling and a communications bus for all modules in the shelf. The communications module handles monitoring, management and configuration of each module in the shelf. This design reduces installation time for individual WaveReady modules.

External interfaces include a standard five-position terminal block, two 25-pin DB-25 connectors for aggregated major and minor alarm relays, and sense inputs for each module.

The WaveReady communications module allows local and remote management through a DB-9/RS-232 port on the front panel and three RJ-45 Ethernet connectors. Both TL1 and SNMP based management are supported.

The WaveReady 3500-F comes configured for installation in 19-inch, 23-inch, or ETSI telecommunication racks.

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Performance Specifications¹

Parameter	Minimum	Typical	Maximum
Electrical Characteristics			
DC supply voltage ²	Redundant, -48 V, front access		
Power connectors	Standard four-position terminal block, -48 V, on the front, right-hand side of the shelf		
Fuses	Two 12 A indicating		
Overall power dissipation ³			
Fan unit	-	-	50 W
Fully populated shelf (including fans)	-	240 W	330 W
Cooling	Provided through a fan tray with six replaceable fans located at the top of the shelf. The cooling unit allows a power dissipation of 20 W per slot.		
Power cables	14 AWG	-	12 AWG
Physical Dimensions			
19-inch configuration	-	7U high	-
Size (H x W x L)	12.2 x 17.4 x 11 inches (31.1 x 44.0 x 28.0 cm)		
Weight			
Empty		23.5 lbs (10.6 kg)	
When fully populated with WaveReady modules (Max.)		6.6 lbs (299 kg)	
Capacity	One communications module in slot C. Thirteen WaveReady modules in slots 1 to 13.		
Environmental Characteristics			
Operating ambient temperature	-5 °C	-	55 °C
Storage temperature	-40 °C	-	85 °C
Relative humidity (non-condensing)	5 %	-	95 %

1. All specifications are guaranteed over the life, operating temperatures, wavelength range, and input voltage specified. This product should be deployed in accordance with your company's deployment directives
 2. The DC power supply must be -48 V SELV output and certified by a nationally recognized test laboratory (NRTL). UL tested at -48 V.
 3. Overall power dissipation depends on the number and type of installed modules. Refer to individual WaveReady module user manuals for power dissipation values.

Interface Specifications

Parameter	Specification
Craft	RS-232 Craft: Through an RS-232/DB-9 connector on the front panel of a communications module. RJ-45 Ethernet: Three 10/100BaseT connectors (one craft, two network) on the front panel of a communications module. TL1 or SNMP interfaces to other modules in the shelf through the RS-232/DB-9 connector on front panel of a communications module, or 10/100BaseT Ethernet connectors on the front panel of a communications module.
Alarms and sense	Aggregated alarms and sense for all modules in the shelf are accessible through two 25-pin DB-25 connectors on the front of the unit. WaveReady 3500-F alarms, with LEDs on the front face of the fan tray, are "Fan Power" and "Fan Alarm". See the user manuals of individual WaveReady modules for module-specific alarm information.
Alarm relay signals	Dry contact major and minor alarms for the shelf and for individual WaveReady modules. Relay open under normal operation. Relay closed when power is off.

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Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Sample: DMS-3500FSE02

Product Code	Description
DMS-3500FSE02	WaveReady 3500-F
DMS-3500FAN02	WaveReady 3500-F Fan Unit
DMS-3500AF000	WaveReady 3500-F Fan Filter
DMS-3500FFP00	WaveReady 3500-F Filler plate

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