



WaveReady™ DMS-3500FSE04

7U, 630 W Cooling Capacity, 14-Slot Optical Platform

The WaveReady DMS-3500FSE04 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 platform supports any mix of WaveReady-powered modules including high-power multirate transponders, muxponders, and single channel and multichannel DWDM amplifiers up to a total power draw of 630W. It also supports passive one-, four, and eight-channel DWDM and CWDM cassettes.

The platform 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 four-position terminal block, Ethernet through an RJ-45 connector on a communications module, RS-232 through a D-subminiature connector on a communication module, and alarms and input sense through two 25-pin D-subminiature connectors located on the front of the shelf.

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

The platform is configured for installation in 19/23 in or ETSI 300/600 mm telecommunication racks.

Key Benefits

- 630 W cooling capacity accommodates high-power WaveReady modules in most slots
- Easy to deploy: 7U high, installs in standard 19 or 23 in or ETSI 300 mm and 600 mm racks with user-configurable front or rear exhaust.
- Front access for optical module and application provisioning including fiber management
- Centralized alarming for each module in the shelf: 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

Key Features

- Field-replaceable air filter and fan module with status LEDs
- Dual-source –48 VDC centralized power distribution
- FCC Class A EMI compliant, EN55022 Class B
- Two-speed fan units with automatic switching
- Sliding fiber tray for easy connection and containment of fibers

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; SR-3580
- CE; IEC 60950; ETS300-386; EN 55022 (Class B); 73/23/EEC
- NEBS Level 3, RoHS 5/6

Specifications¹

Electrical Power	Minimum	Typical	Maximum
DC supply voltage ²	-40V	-48V	-57.5V
Maximum current draw ³	16 A		
Fuses			
Shelf	GMT indicating 20 A fuse		
Fans	3 A re-settable		
Cooling Capacity			
With DMS-3500FHP01 ⁴ fan tray	560W		
With DMS-3500FANE5 fan tray	630W		
Connectors			
Power connectors	<ul style="list-style-type: none"> 4-position terminal block. WaveReady modules: common power drawn through shelf connectors 		
Alarm relay signals	<ul style="list-style-type: none"> Dry contact, critical, major, and minor alarms 16 sense input signals Relay open under normal operation Relay closed when power is off or an alarm is active 		
Communications and Capacity			
Communications	<ul style="list-style-type: none"> RS-232 through a D-subminiature connector on the front of the optional communication module Alarms and input sense through two 25-pin D-subminiature connectors located on the front of the shelf Ethernet connectivity through an RJ-45 connector on the optional communication module 		
Capacity	Maximum 14 modules (13 modules in slots 1 to 13, and one communication module in slot C)		
Wiring			
Power cable	14 AWG		
Ground wire	12 AWG		
Physical Characteristics			
Size ⁵ (H x W x L)	7U high: 31 x 44 x 28 cm (12.25 x 17.3 x 11 in)		
Empty shelf weight	9.5 kg (21 lb)		
Fully-populated shelf weight (approximate)	34.8 kg (77 lb)		
Fan tray unit weight	2.6 kg (6 lb)		
Environmental Characteristics^{6,7}			
Storage temperature	-40°C (-40°F)	85°C (185°F)	
Operating ambient temperature	0°C (32°F)	40°C (104°F)	
Short-term temperature	-5°C (23°F)	55°C (131°F)	
Relative humidity	5%	95%	

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.

Description	Product Code
DMS-3500FSE04 7U, 630 W cooling capacity, 14-slot optical platform	DMS-3500FSE04
WaveReady DMS-3500F shelf fan unit	DMS-3500FANE5
WaveReady DMS-3500F air filter	DMS-3500AF000
WaveReady DMS-3500F filler plate	DMS-3500FP00
WaveReady DMS-3500F high-power AC/DC power supply kit	DMS-3500PWRHP
WaveReady DMS-3500F AC/DC power supply kit	DMS-3500PWR02
Communications module 300 (COM-300) and one Node Manager license	COM-300ET003Y-### ¹⁰
Communications module 300 (COM-300) and one Multi-Node Manager license	COM-300ET003M-### ¹⁰

- 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.
- The DC power supply must be -48 V SELV output and certified by a nationally recognized test laboratory (NRTL). UL tested at -48 V.
- Based on 80% of rated fuse.
- The DMS-3500FP01 fan was shipped with and was orderable for use in some DMS-3500FSE04 shelves until February 2014. The DMS-3500FANE5 is the fan recommended for the DMS-3500FSE04 and DMS-3500FSE05 shelves.
- Length (depth) quoted with the fiber tray closed.
- These criteria are specified ambient to the chassis. Temperatures ambient to the module installed in the chassis will be higher.
- If a WR3500FSE04 shelf contains WRT-852 or WRM-8008 modules, the maximum ambient operating temperature must be de-rated by 5°C (9°F) to maintain safe module case temperatures.
- Short term refers to a period of not more than 96 consecutive hours and a total of not more than 15 days in 1 year.
- With ambient temperature about 29°C (84°F), the relative humidity may be limited to that corresponding to a specific humidity of 0.024 pounds of water per pound of dry air.
- ### indicates the WaveReady system software release. Contact JDSU for current release numbers.



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