



## WaveReady™ DMS-3500FSE05

8U, 700 W Cooling Capacity, 14-Slot Optical Platform

The WaveReady DMS-3500FSE05 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 700W. 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 RJ45 connector on a communications module, RS232 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/RS232 port on the front panel, three RJ45, and one OSC Ethernet connectors. Both TL1 and SNMP-based management are supported.

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

### Key Benefits

- 700 W cooling capacity accommodates high-power WaveReady modules in all module slots
- Easy to deploy: 8U high, installs in standard 19 or 23 in or ETSI 300 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 RJ45 ports) and RS232 (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

**Specifications<sup>1</sup>**

<b>Electrical Power</b>	<b>Minimum</b>	<b>Typical</b>	<b>Maximum</b>
DC supply voltage <sup>2</sup>	-40V	-48 V	-57.5 V
Maximum current draw <sup>3</sup>	16 A		
<b>Fuses</b>			
Shelf	GMT indicating 20 A fuse		
Fans	3 A re-settable		
<b>Cooling Capacity</b>			
With DMS-3500FANE5 fan tray	700 W		
<b>Connectors</b>			
Power connectors	<ul style="list-style-type: none"> <li>4-position terminal block</li> <li>WaveReady modules: common power drawn through shelf connectors</li> </ul>		
Alarm relay signals	<ul style="list-style-type: none"> <li>Dry contact, critical, major, and minor alarms</li> <li>16 sense input signals</li> <li>Relay open under normal operation</li> <li>Relay closed when power is off or an alarm is active</li> </ul>		
<b>Communications and Capacity</b>			
Communications	<ul style="list-style-type: none"> <li>RS232 through a D-subminiature connector on the front of the optional communication module</li> <li>Alarms and input sense through two 25-pin D-subminiature connectors located on the front of the shelf</li> <li>Ethernet connectivity through an RJ45 connector on the optional communication module</li> </ul>		
Capacity	Maximum 14 modules (13 modules in slots 1 to 13, and one communication module in slot C)		
<b>Wiring</b>			
Power cable	14 AWG		
Ground wire	12 AWG		
<b>Physical Characteristics</b>			
Size <sup>4</sup> (H x W x L)	8U high: 35.6 x 44 x 28 cm (14 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)		
<b>Environmental Characteristics<sup>5,6</sup></b>			
Storage temperature	-40°C (-40°F)	85°C (185°F)	
Operating ambient temperature	0°C (32°F)	40°C (104°F)	
Short-term temperature <sup>7</sup>	-5°C (23°F)	55°C (131°F)	
Relative humidity <sup>8</sup>	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](mailto:customer.service@jdsu.com).

<b>Description</b>	<b>Product Code</b>
DMS-3500FSE05 8U, 700 W cooling capacity, 14-slot optical platform	DMS-3500FSE05
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-### <sup>9</sup>
Communications module 300 (COM-300) and one Multi-Node Manager license	COM-300ET003M### <sup>9</sup>

- 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.
- 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 WR3500FSE05 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.



**North America**  
**Worldwide**

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