WaveReady™ 3100
1U Rack-mount Shelf DMS-3100DC004 and DMS-3100AC002

Key Features

- **Deployable in central or remote locations**
- **Offers low-profile, high-density dimensions: 1U (1.75 in) high with capacity for two WaveReady 3000 modules**
- **Offered in DC or AC versions; additional external AC-to-DC converters are available for DC model**
- **Supports up to three daisy-chained WaveReady 3100 shelves**
- **Provides easy rear access to power distribution and alarms**
- **Manage Ethernet interface module remotely or locally via craft interface terminal or GUI using the WaveReady Node Manager**

Applications

- Supports remote, daisy-chained shelves with one to five WaveReady 3000-series modules and a WaveReady communications module

Compliance

- CSA standards for Canada and the USA
- FCC Class A part 15
- NEBS Level 3 WaveReady 3100 DC
- NEBS Level 2 WaveReady 3100 AC
- CE
- RoHS (exemptions 7b, 8a)— DC version (DMS-3100DC004) and all associated parts

The JDSU WaveReady 3100 is a 1U, two-slot, rack-mount shelf that is ideally suited for remote terminal and stand-alone network applications. The WaveReady 3100 provides power, monitoring, cooling, and management for all available WaveReady 3000-series modules.

The remote management capabilities of the unit lowers support costs while its low profile (1.75 inches) reduces space requirements, thus lowering operating expenditures. Its daisy-chaining capability offers pay-as-you-grow transition path up to five-module systems. This approach allows service providers to plan their capital expenditures in line with their budgets and customer demands.

External interfaces on the backplane include a standard five-position terminal block, a DB-25 connector for aggregated major and minor alarm relays, one sensor input for each module, three DB-15 connectors for inter-shelf connection, and an RJ45 Ethernet connector for management connectivity. Power is supplied through a standard five-position terminal block for the DC version and IEC320 cables for the AC version.

Product cooling is implemented via a dual redundant fan unit that is field replaceable.

2

Specifications

Parameter[1]	DMS-3100DC004	DMS-3100AC002
Electrical Characteristics		
DC supply voltage (typical)	−48 V DC standard five-position terminal block located on the rear of the unit	NA
AC power supply	NA	AC power is supplied through two IEC 320 cables connected to the rear of the shelf
Physical Dimensions		
IU high (19-in configuration) (H x W x L)	4.45 x 44.19 x 29.97 cm (1.75 x 17.4 x 11.8 in)	4.45 x 44.19 x 43.18 cm (1.75 x 17.4 x 17 in)
Weight		
Empty	1.86 kg (4.1 lb)	3.2 kg (7.0 lb)
With two modules installed	2.99 kg (6.6 lb)	4.3 kg (9.5 lb)
Environmental Characteristics		
Operating temperature	−5 to 55℃	0 to 40℃
Storage temperature	−40 to 85℃	−40 to 85℃
Relative humidity (non-condensing)	5 to 95%	5 to 95%
Interface		
Configuration	DB-15 connectors for inter-shelf connection and communication. Subtending cable included.	
Local and remote management	RS232/DB-9 connector on front panel of optional WaveReady communications module for craft management of modules in the shelf or subtending shelves. RJ45 Ethernet connector on backplane enabled when a WaveReady Communications Module is installed in the shelf or a parent shelf.	
Alarms	Dry contact on individual WaveReady modules. Relays open under normal operation. Relays closed when power is off and alarm is active. DB-25 connector on the backplane for aggregated major alarm and minor alarm relays and sensor input for each module.	
Front panel	Seven LEDs: Fan 1 (fan status); Fan 2 (fan status); DC Power A (power supply A); DC Power B (power supply B); Shelf 1 (shelf configuration); Shelf 2 (shelf configuration); Shelf 3 (shelf configuration).	

[1]Unless otherwise noted, all specifications are guaranteed over the life, operating temperatures, wavelength range, and input voltage range specified. This product must be deployed in accordance with your company's deployment directives.

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.

Product Code	Description
DMS-3100DC004	WaveReady 3100 1U, two-module shelf-DC version
DMS-3100AC002	WaveReady 3100 1U, two-module shelf-AC version

Associated Parts

Product Code	Description
DMS-3100FAN02	FAN module
DMS-3100AF000	Replacement air filter kit (filter and hardware)
DMS-3100AFR00	Replacement air filters
DMS3100-PWR02	110 V AC to −48 V DC power supply (1.25 A) for use with DMS-3100DC002 shelf
DMS3100-PWR03	90 to 264 V AC, 47-63 Hz to −48 DC power supply, Continental Europe Power Plug for use with DMS-3100DC004 shelf
DMS3100-PWR04	90 to 264 V AC, 47-63 Hz to −48 DC power supply, Great Britain Power Plug for use with DMS-3100DC004 shelf