OPTICAL
SYSTEMS
DESIGN

OPERATOR MANUAL

OSD350B

12-CARD CHASSIS

WITH DUAL REDUNDANT POWER

WITH OSD921 AND NMS

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1 TECHNICAL SUMMARY

1.1 BRIEF DESCRIPTION

1.1.1 OVERVIEW

The OSD350B is a 19" 3RU (133mm) high rack mounting chassis, which accepts two OSD921 power supply modules plus from one to twelve OSD standard card format plug-in modules. The system employs a 9-pin female D connector at each position for card powering and for the OSD Network Management slot addressing. The plug-in power supply is capable of providing power for almost any combination of plug-in cards but it is suggested that the user confirm that his projected combination of cards can be supported by the OSD921 power supply unit. Individual product data sheets provide the Chassis Current Consumption (CCC) for each plug-in card: the total of these must be less than the rating of the OSD921 Power Supply Unit, ie 6 Amp total

1.1.2 APPLICATIONS

- Use where OSD fiber optic cards required

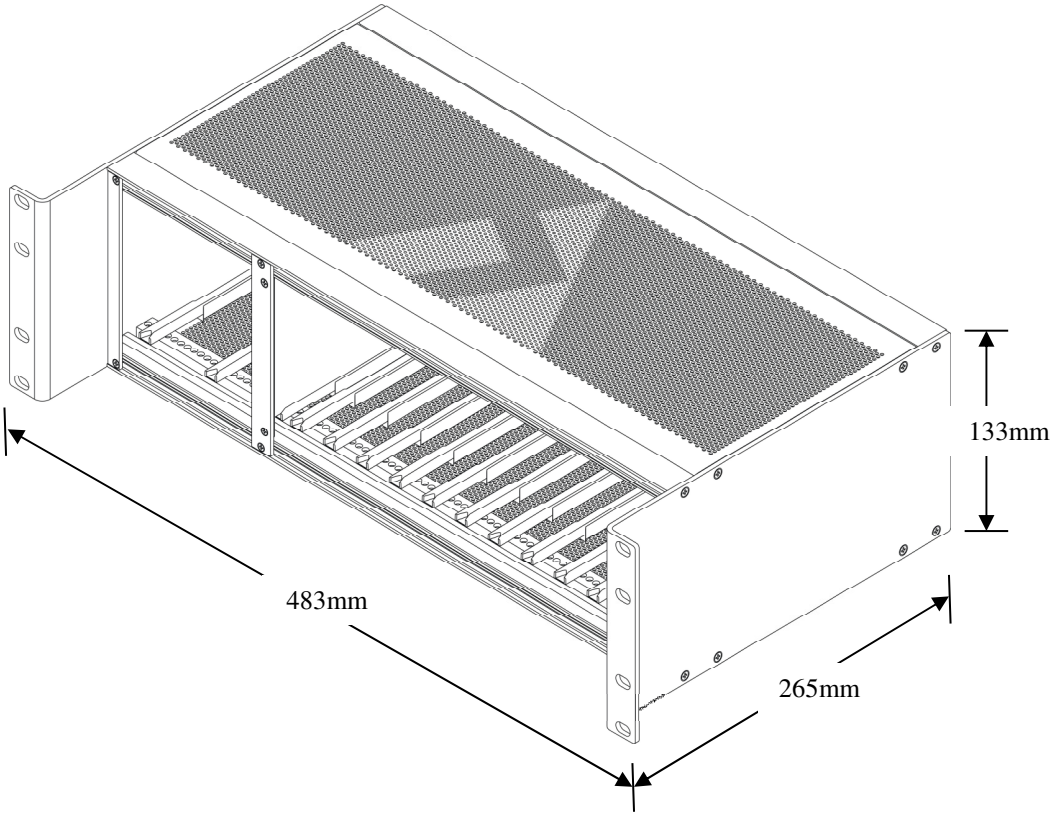
1.1.3 FEATURES AND BENEFITS

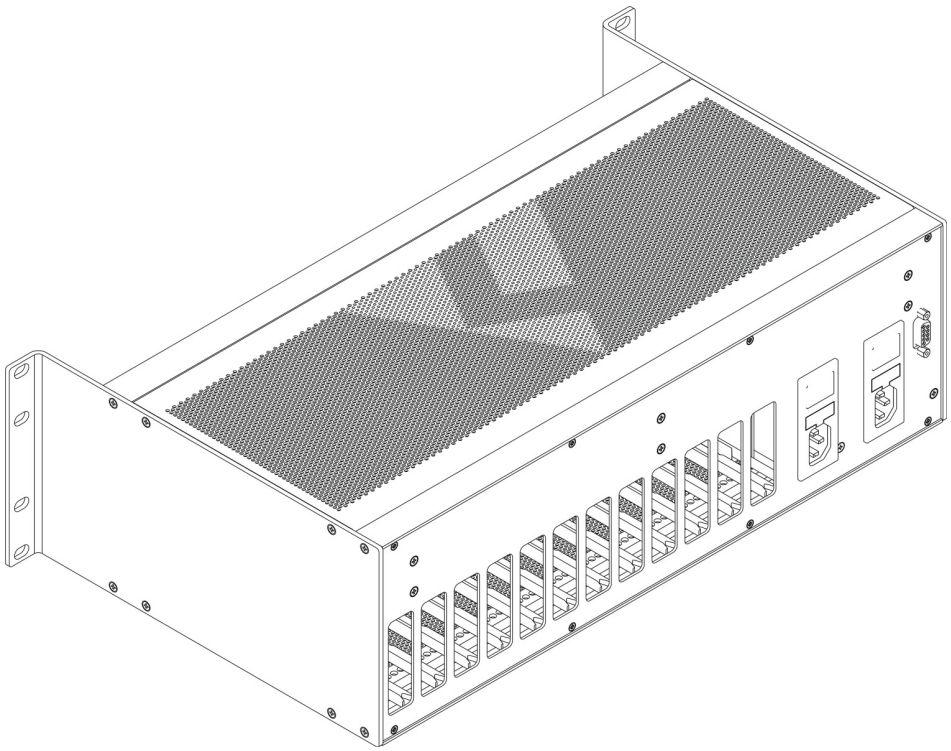
- Compact 3RU high, 19” rack mounting unit
- Holds up to 12 5T-width OSD standard-sized cards
- Requires one OSD921 power supply unit
- Supports any combination of OSD cards
- Power supply fail alarm output

1.2 TECHNICAL SPECIFICATIONS

Specification	Performance
Electrical	
Input	100 - 264V AC 50-60Hz (using OSD921)
Fusing	1A delayed action fuse
Physical	
Form factor	Designed to fit standard 19 inch rack
Outer dimensions (mm)	483W x 265D x 133H
Weight	4.0kg (with OSD921 power supply)

2 PHYSICAL DIMENSIONS





3 INSTALLATION AND OPERATION

3.1 OSD921 POWER SUPPLY OPERATION

The OSD350B can use up to two OSD921 power supply units.

A front panel mounted LED indicator on the OSD921 illuminates when the power supply unit is switched on. Front panel test points are available on the OSD921 for monitoring the 12VDC output of the supply. Note that the test point outputs are current limited and cannot be used as a power source.

The OSD921 supply has a built-in cooling fan.
The cooling fan operates only when high temperatures are experienced on the power supply whilst under heavy load and/or high ambient temperatures.
The fan may not continuously operate and under low load or low ambient temperatures it may not operate at all.

The **Temperature Alarm** LED on the front panel of the OSD921 is green during normal operation and will be red when the operating temperature exceeds the normal operating limits of the supply.

Do not continue to operate the power supply when the Temperature Alarm LED is red and take steps to rectify the cause of the excessive high temperature indication.

3.2 IMPORTANT INSTALLATION REQUIREMENTS

It is important to provide a cool operating environment as well as to provide adequate ventilation.

The OSD350B chassis must be separated by at least a 1RU (about 44mm) gap above and below the unit to provide ventilation.

The ventilation holes of the chassis must never be covered by any objects.

3.3 BACK PLANE OUTPUTS

The OSD350B is merely a mechanical chassis, so electrical specifications are not given, other than the pin outs for the 9-pin D female connector of the back plane.

DB9 Pin	Specification
1	NMS Address Bit 1
2	NMS Address Bit 2
3	+12V_{DC} nominal
4	NMS Address Bit 3
5	D+
6	Ground
7	Ground
8	NMS Address Bit 4
9	D-

3.4 ALARM OUTPUTS

There are alarm outputs available on the rear panel via a 9-pin D female connector.

The alarm outputs are normally open circuit when each of the power supplies is operational.
If there is a power supply failure or excessive operating temperature, the alarm output is connected to ground via a relay.

The pin out of the 9-pin D female connector is as follows:

Pin 3	PSU 1 Alarm Output
Pin 4	PSU 2 Alarm Output
Pin 7	Ground Return

All other pins are not used.
NOTE: The alarm indication is only available if the OSD921 power supply is installed.

4 MAINTENANCE

4.1 EXTERNAL INSPECTION

Visually check the following:

- ▲ Check that the correct power source is connected to the power socket

4.2 ROUTINE MAINTENANCE

- ▲ There is no routine maintenance required with the OSD350B.

5 WARRANTY

OSD warrants that at the time of shipment, its products are free from defects in material and workmanship and conforms to specifications. Our Warranty conditions are outlined below:

5.1 WARRANTY PERIOD

For warranty period and repair service please call your local OSD distributor.

5.2 REPAIRS

Optical Systems Design reserves the right to repair or replace faulty modules/units. Please obtain a "Return Material Authorisation" (RMA) form and number before returning goods.
Goods must be returned in adequate packing material to Optical Systems Design, Warriewood, Australia or its nominated authorised representative, for all repairs.

5.2.1 WARRANTY REPAIRS

Return shipments to OSD shall be at customer's expense and freight back to the customer will be at OSD expense.

5.2.2 OUT-OF-WARRANTY REPAIRS

OSD reserves the right to repair or replace any faulty goods. Freight costs and insurance for both journeys are met by the user. All equipment repaired by OSD will have a 3-month warranty from the date of dispatch.

5.2.3 SITE REPAIRS

By agreement site repairs may be undertaken for which out of pocket, hotel and travel expenses will be charged.

5.2.4 EXCLUSIONS

This warranty does not apply to defects caused by unauthorized modifications, misuse, abuse or transport damage to the equipment. All modifications to OSD's standard product will need written authorization and will be charged at normal repair rates. All modifications are to be carried out by OSD Technicians. Warranty is void if unauthorized removal and/or tampering with serial number and/or repair labels is evident.

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