OPTICAL
SYSTEMS
DESIGN

OPERATOR MANUAL

OSD3700

2RU 18-CARD CHASSIS

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1 TECHNICAL SUMMARY

1.1 BRIEF DESCRIPTION

1.1.1 OVERVIEW

The OSD3700 is a 19" 2RU high (88mm) rack mounting chassis which accepts one OSD9221 power supply module plus from one to eighteen OSD 2RU format plug-in cards. The system employs a 4-pin female connector at each position for card powering. 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 OSD9221 power supply unit. Individual product datasheets provide the Chassis Current Consumption (CCC) for each plug-in card: the total of these must be less than the rating of the OSD9221 Power Supply Unit, ie 6 Amps total.

The OSD3700 is merely a mechanical chassis, so electrical speciications are not given, other than the pinouts for the Molex 4-pin backplane connectors.

1.1.2 APPLICATIONS

▲ Use where OSD 2RU fiber optic cards required

1.1.3 FEATURES AND BENEFITS

▲ Compact 2RU high, 19” rack mounting unit
▲ Holds up to 18 OSD 2RU-sized cards
▲ Requires one OSD9221 power supply unit
▲ Supports most combinations of OSD’s 2RU cards

1.2 TECHNICAL SPECIFICATIONS

TABLE 1: OSD3700 SPECIFICATIONS

Specification	Performance
Electrical	
Input	90 - 264VAC 47-63Hz (using OSD9221)
Fusing	1A Slow Blow Fuse
Physical	
Form factor	Designed to fit standard 19 inch rack
Outer dimensions (mm)	483W x 275D x 88H
Weight	3.0kg (with OSD9221 power supply)

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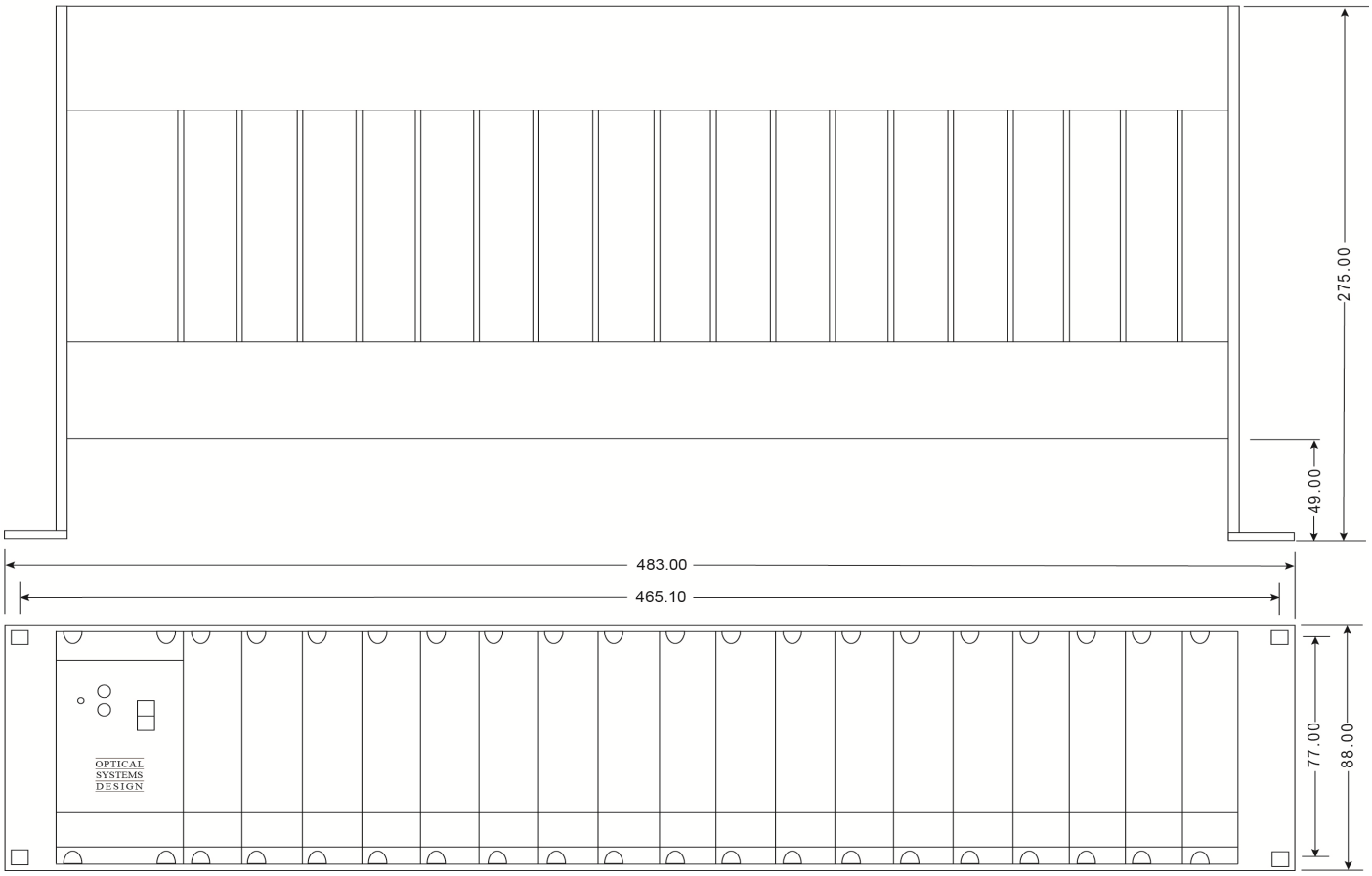
2 PHYSICAL DIMENSIONS



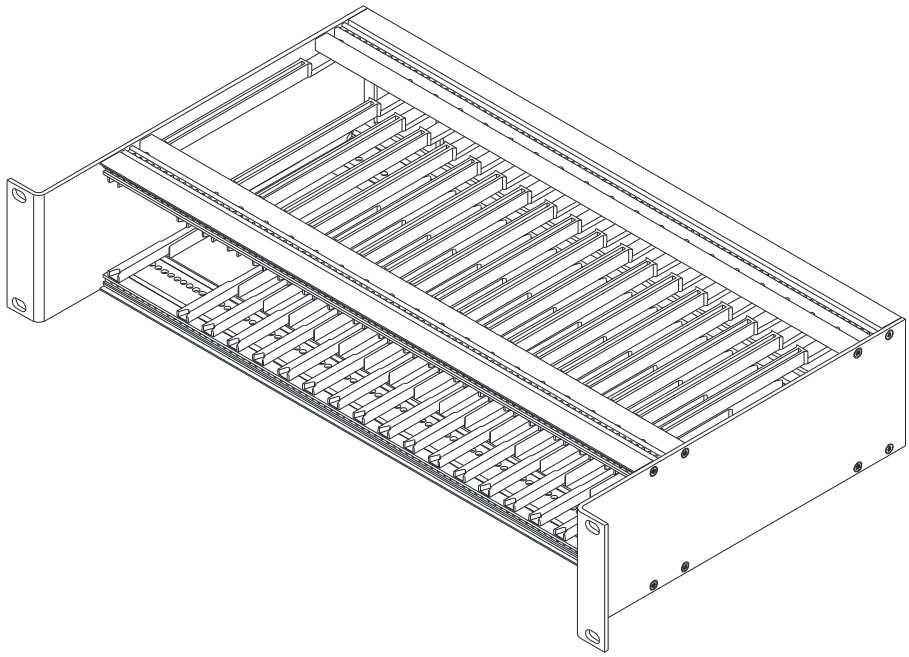


FIGURE 1: OSD3700 DIMENSIONS

3 INSTALLATION AND OPERATION

3.1 OSD9221 POWER SUPPLY OPERATION

The OSD3700 uses an OSD9221 power supply unit.

A front panel mounted LED indicator on the OSD9221 illuminates green when the power supply unit is switched on. Front panel test points are available on the OSD9221 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 OSD9221 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 **Power** LED on the front panel of the OSD9221 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 OSD3700 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 OSD3700 is merely a mechanical chassis, so electrical specifications are not given, other than the pin outs for the 4-pin Molex connector of the back plane.

TABLE 2: OSD3700 PIN CONFIGURATION

Pin	Specification
1 & 3	+12V_{DC} nominal
2 & 4	Ground

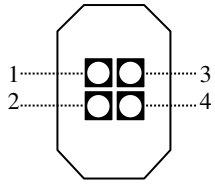


FIGURE 2: OSD3700 PIN ASSIGNMENT

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 OSD3700.

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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Printed in Australia