Quick Start Guide

OSD2892

MANAGED 36 x 10/100/1000BASE-T

& 4 x 10G SFP ETHERNET SWITCH

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1 INTRODUCTION

Thank you for choosing the OSD2892 40-Port (36x1G + 4x10G) L2/L3 Managed Ethernet Switch. This Quick Start Guide is designed to guide you through the installation and basic software functions.

2 TECHNICAL SUMMARY

2.1 BRIEF DESCRIPTION

The OSD2892 is an L2/L3 managed 36 port 10/100/1000BASE-T and 4 port 10G SFP Ethernet Switch. Please see OSD2892 datasheets for options available.

2.2 APPLICATIONS

- Any network utilizing a mix of copper and fiber
- ▲ Industrial IP communications

2.3 FEATURES AND BENEFITS

- ▲ Complies with IEEE802.3i/802.3u/802.1ab 10/100/1000Base-T, IEEE802.3z 1000Base-LX, IEEE802.3ae 10GBaseXX standards
- ▲ Supports RSTP/STP/ ITU-TG.8032 Ethernet Ring Protection Switching for Ethernet redundancy Supports Loop Protection
- ▲ IP Multicast Filtering through IGMP Snooping V2
- Supports port-based VLAN and Private VLAN
- ▲ QoS with eight priority levels
- ▲ Virtual USB console, Telnet, SNMP V1, V2c & V3 and Web Browser
- ▲ Full wire-speed forwarding rate
- ▲ Supports IEEE802.1x Security
- ▲ IEEE802.3ab Link Layer Discovery Protocol

- Self-healing Gigabit Ethernet backbone networks
- ▲ Four 10G SFP trunk/uplink ports
- ▲ Static and LACP link Aggregation
- A Port speed control and Port mirroring
- ▲ 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- ▲ Operates over the temperature range of -20 to +60°C
- Redundant DC powering and optional redundant AC powering
- ▲ Optional IEEE 802.3af/at PoE (OSD2892P)
- System log and remote firmware upgrading
- ▲ Intelligent thermal protection
- ▲ L3 compliant switch, including functions like: Universal Plug and Play (UPnP), IPv4/IPv6 L3 static routing, RFC2328 OSPFv2 dynamic routing, RFC-1812 L3 checking (version, IHL, checksum), etc.

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2.4 TECHNICAL SPECIFICATIONS

TABLE 1: TECHNICAL SPECIFICATIONS

SFP Options optical SFP modules Operating Temp=ture -20°C to +60°C Relative Humidity 5 to 95% non-condensing Power OSD2892DC 10 to 36V _{DC} @ 45VA Max via one 4-way 5.08mm terminal block OSD2892AC 90 to 264V _{AC} @ 50VA Max via integrated IEC power inlet module OSD2892DAC 90 to 264V _{AC} @ 55VA Max via two integrated IEC power inlet modules OSD2892PA 90 to 264V _{AC} @ 50VA Max (without PoE) & @ 450VA Max (with PoE0 via on 4-way 5.08mm terminal block OSD2892P PoE For Budget 750W maximum Dimensions of M-ule (mm) 440W x 300D x 44H	SPECIFICATION		PERFORMANCE				
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OSD2892P PoE TEEE802.3at: 47 to 55Vpc @ 0.70Amp maximum Configuration C==cor Mini USB console Port Alarms Four: 2 for Power Supply Status, 2 user definable via the GUI Alarm Interface 4 opto-isolated relay drivers via two 4-way 3.5mm terminal blocks Control System reset Optical Port Control Dual LC on 2-fiber SFP modules or SC on 1-fiber SFP modules Trunk/Uplink Port Optical IEEE802.3ac for 10GBASE-SR (MM: 300m), 10GBASE-LR (SM: 10km), 10GBASE_LR (SM: 10km), 10GBASE_LR (SM: 40km), 10GBASE_ZR (SM: 80km), IEEE802.3z 1000Base-Lx/Sx Operating Mode IEEE802.3ac for 10GBASE-SR (MM: 300m), 10GBASE-LR (SM: 10km), 10GBASE_CASX 1000Base-Lx/Sx Operating Mode Fall of ruli duplex for 10/100 Full duplex for 10/100 Full duplex for 10/100 Full duplex for 10/100/1000Base-T: Link Activity Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control 1 x power 36 x 10/100/1000Base-T: Speed 36 x 10/100/1000Base-T: Speed SFP Options See OSD Datasheets #1010000X and #10210G00X for full details on availabl optical SFP modules Operating Temperter -20°C to +60°C Relative Humidty Sto 95% non-condensing OgSD2892DAC 90 to 264Vac @ 55VA Max via on	Electrical Data Co	onnector	RJ45 on the fixed copper ports for OSD2892 and OSD2892P				
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Dimensions of Module (mm) 440W x 300D x 44H		OSD2892P	47-57 V _{DC} @ 50VA Max (without PoE) & @ 450VA Max (with PoE0 via one 4-way 5.08mm terminal block				
	OSD2892P PoE Power Budget		750W maximum				
	Dimensions of Module (mm)		440W x 300D x 44H				
Weight (kg) 4.9 Ior OSD2892, 5.1 Ior OSD2892P	Weight (kg)		4.9 for OSD2892, 5.1 for OSD2892P				

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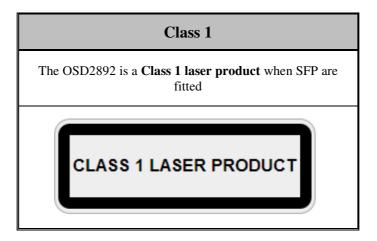
3 INSTALLATION

ELECTROMAGNETIC COMPATIBILITY

WARNING: This is a **Class A product**. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

OPTICAL OUTPUT OPERATION

WARNING: Laser Safety: Class 1 Laser Product (SFP) per IEC 60825-1:2014 standard.



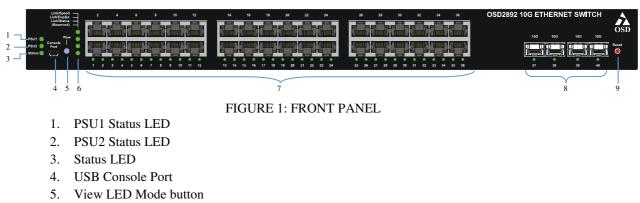
PRECAUTIONS

- ▲ All service personnel should be provided training as to the hazards of direct viewing of laser radiation and of the precautionary measures during servicing of equipment
- ▲ Areas where laser products are installed should be restricted in access to trained service personnel only and appropriate warning signs posted in the work area.
- ▲ All laser apertures should be covered by protective covers when not connected to optical fibers. Never leave outputs uncovered.
- ▲ Laser equipment should be positioned above or below eye level where possible. Apertures should be positioned away from personnel.
- A Protective eyewear should be worn in the vicinity of laser equipment.

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4 OSD2892 FRONT AND REAR PANELS

4.1 FRONT PANEL



- 6. View mode LEDs indicators
- 7. 36 x 10/100/1000M COPPER ports with Link/Speed/Status LED
- 8. 4 x 10G Trunk/Uplink SFP ports with Link/Speed/Status LED
- 9. Reset Button

4.2 REAR PANEL



- 10. PSU Alarm Output connector
- 11. Programmable Alarm Output Connector
- 12. Earth/Ground screw
- 13. PSU 1 Power Supply Input/Fuse/Switch

5 Power Supply Connections

There are various power options for the OSD2892. Refer to Table 1 Power Options (Figure 3 has OSD2892AC version shown). Power is connected to the rear of the unit.

Fuse: 1A 250V Anti-Surge, 5x20mm.

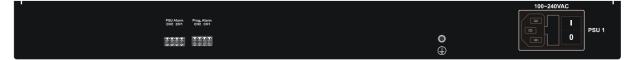


FIGURE 3: POWER CONNECTION

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6 LED Indicators

TABLE 2: LED FUNCTION

LED	Function
PSU 1	• Red – PSU 1 Not connected or faulty
F30 I	• Green – PSU 1 On
	• Red – PSU 2 Not connected or faulty
PSU 2	• Green – PSU 2 On
	• Off – PSU 2 not available/fitted
Status	Red – Standby/Initialization Mode
Status	Green – Normal status
View Mode LED Indicators	Controlled by View LED Mode Button. Pressing the Mode button cycles the Copper Port Status LED indication. Speed Mode → Duplex Mode → Status Mode → Reserved
	The Copper Port Status LED will indicate different information. Speed Mode:
	• Green – 1Gbps
	• Yellow – 100MBps
	• Off – No Connection
~ ~ ~ ~	Blinking – Traffic
Copper Port Status LED	• Green – Full Duplex
LLD	 Green – Full Duplex Yellow – Half Duplex
	 Off – No Connection
	Status Mode:
	Green – Connection established
	Off – No Connection
	The Fiber Port Status LED will indicate different information. Speed Mode:
	• Green – 1Gbps or 10Gbps
	• Yellow – 100MBps
Fiber Port Status	Off – No Connection
LED	Duplex Mode:
	Green – Full Duplex
	Off – No Connection Status Mode:
	Green – Connection established
	 Off – No Connection

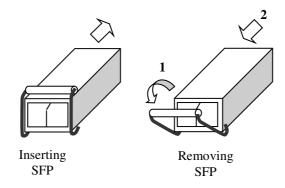
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7 Fitting SFP Connectors

Care should be taken when inserting/removing the SFP connectors from the SFP port as SFP modules are Electrostatic (ES) sensitive and Electrostatic Discharge (ESD) precautions should be taken when installing. Ensure that the SFP is fully engaged and latched into position.

Inserting SFP – Ensure that the SFP lever is in the locked position and insert into appropriate SFP port. Gently push the SFP until it locks into place. Remove plastic/rubber dust cap and fit appropriate fiber cable.

Removing SFP – Remove fiber connector. Pull the SFP lever down to unlock SFP from housing. Using the lever, gently pull the SFP out.



Fiber SFP

FIGURE 4: FITTING/REMOVING SFP CONNECTORS

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8 CLI OVERVIEW

8.1 CONNECT TO CLI

The Silicon Laboratories CP210x VCP Drivers is required to be installed on the PC before connecting the switch.

Open File - Security Warning. Image: Comparison of the section of	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vi Welcome to the InstallShield Wizard for Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.1.00 The InstallShield Vizard will copy Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.1.00 onto your computer. To continue, click Next.
Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vi Choose Destination Location Select folder where setup will install files. Setup will install Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Visia/7 v6.1.00 in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. Destination Folder cxWCUVCP210x/Windows_XP_S2K3_Vista_7 InstallShield C Back Next >	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vi Image: Comparison of the following license agreement carefully. License Agreement Please read the following license agreement carefully. END-USER LICENSE AGREEMENT Important: READ CAREFULLY' BEFORE AGREEING TO TERMS SILICON LABORATORIES INC., SILICON LABORATORIES INTERNATIONAL PTE. LTD., AND THEIR AFFILIATES (COLLECTIVELY, "SILICON LABORATORIES INTERNATIONAL PTE. DEVELOPED CERTAIN MATERIALS (E.G., DEVELOPMENT TOULS, EXAMPLE CODE, EMBEDDABLE CODE, DLLS, SOFTWARE/COMPUTER PROGRAMS AND OTHER THIRD PARTY PROPRIETARY MATERIALS IS SUBJECT TO THIS END MATERIALS (SOFTWARE/COMPUTER PROGRAMS AND OTHER Image: Computer Computer Computer PROGRAMS AND OTHER THE DICENSED MATERIALS IS SUBJECT TO THIS END USER LICENSE Image: Computer Computer Computer Computer Computer Computer Code, EMBEDDABLE CODE, DILLS, SOFTWARE/COMPUTER PROGRAMS AND OTHER Image: Computer Computer Computer Code, Computer Code, Code
Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vi Choose Destination Location Select folder where setup will install files. Setup will install Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 V61.100 in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. Destination Folder c.\WCU\CP210x\Windows_XP_S2K3_Vista_7 Browse	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/ InstallShield Wizard Complete The InstallShield Wizard has successfully copied the Silicon Laboratories CP210k VCP Drivers for Windows XP/2003 Server/Vista/7 v6.1.00 to your hard driver. Image: Server/Vistary v6.1.00 to your hard driver. Image: Laboratories CP210k VCP Driver Installer List Restard to complete the Silicon Laboratories CP210k VCP Driver Installer. Click Finish to complete the Silicon Laboratories CP210k VCP Drivers for Windows XP/2003 Server/Vista/7 v6.1.00 setup.

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KBack **Finish** Cancel

Next > Cancel

< Back

Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vistal
InstallShield Wizard Complete	InstallShield Wizard Complete
Silicon Laboratories CP210x USB to UART Bridge Driver Installer Silicon Laboratories Silicon Laboratories CP210x USB to UART Bridge Installation Location: Driver Version 6.1 C:\Program Files\Silabs\MCU\CP210x\ Change Install Location Install Cancel	Silicon Laboratories CP210x USB to UART Bridge Driver Installer Silicon La Silicon La Installation Locat C:\Program F OK Change Install Location Install Cancel
< <u>B</u> ack Finish Cancel	< <u>Back</u> Finish Cancel

- 1. Connect the Console Port on OSD2892 (Mini USB) to PC with USB cable.
 - Using HyperTerminal or similar, set up the following parameters.
 - Baud Rate: 115200
 - Data Bits: 8

2.

- Parity: None
- Stop Bits: 1
- Flow Control: None
- 3. Check the link by pressing <ENTER>. The line should jump to the next line.
- 4. Using the Username and password to login the switch
 - **Default Username**: admin
 - Default Password: (None)

```
Active fis: linux

O0:00:01 Stage 1 booted

O0:00:02 Loading stage2 from NAND file 'fw2cdUiH'

O0:00:21 Overall: 20004 ms, ubifs = 1714 ms, rootfs 18253 ms of which xz = 0 ms of which untar = 0 ms

O0:00:27 Starting application...

Using existing mount point for /switch/

Press ENTER to get started

Username: admin

Password:

#
```

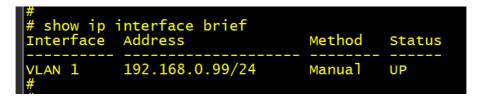
8.2 CLI COMMAND FOR IP CONFIGURATION

The Command Line Interface (CLI) is a useful tool for checking link status and debugging link connections. To enable the use of CLI the OSD2892 must be connected to a PC with a USB port using a Mini-USB cable. Using a terminal emulation program such as Hyperterminal, a number of command lines specific to the OSD2892 can be implemented

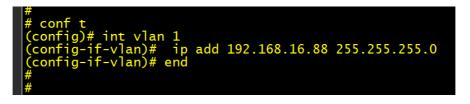
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• *show ip interface brief*: Displays the current IP address and subnet mask.



• *configure terminal -> interface vlan 1 -> ip address <IP address <subnet mask>*: Setup the switch IP address. The following picture is an example of how to configure the device IP into 192.168.16.88



• *copy running-config startup- config*: Save the current configuration to start-up configuration. The configuration will be saved into Flash so that the desired configuration setup will be in effect at the next startup.



PS: All configuration changes must be saved otherwise all the changes will be lost after rebooting!

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GUI Overview

8.3 DEFAULT SETTING

- IP Address: 192.168.0.99
- Subnet Mask: 255.255.255.0
- Gateway: 192.168.0.1
- User Name: admin
- Password: (None)

8.4 LOG INTO THE SWITCH

- Connect an Ethernet cable to any switch port from a PC. It may be necessary to change the PC's network IP address to connect to the switch. (i.e.: 192.168.0.2). Make sure the IP address of the PC and the switch in the same subnet.
- In a web browser, enter the URL 192.168.0.99.
- Enter the username (admin) and password (none/blank) and click "Sign In".

		Q	☆
Sign in http://192.16 Your connect	58.0.99 tion to this site is not private		
Username	admin		
Password			
	Sign in Cancel		

8.5 GUI OVERVIEW

→ C ③ 192.168.0.99

This Quick Start Guide will only show a few main or important features to get the user running the OSD2892 successfully. On the top right hand of the GUI screen there are a few icons available to quickly navigate or obtain help for each GUI menu items.



HOME: Clicking the Home button will exit any GUI current screen and display the panel status.

LOGOUT: Clicking the Logout button will logout the current user and close the windows session

HELP: Clicking the Help button will open a help window for the current open menu window and display all functions and input arguments for that page.

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8.6 IP CONFIGURATION

In the treemap on the left of the GUI, expand the **Configuration** \rightarrow **System** \rightarrow **IP**.

Configuration System Information IP NTP Time Log P Configuratio Mode No Ns server No DNS server In Interfaces												
Delete VLAN EnableClient ID	DHCPv4		Fallback	0	IPv4	1	Enable	DHCPv6	0	IPv6	Marchall	
Enable Type IfMac ASC	II HEX	Hostname		Current Lease	Address	Mask Length		Rapid Commit	Current Lease	Address	Mask L	.ength
1 Auto • Port 1 •			0		192.168.0.99	24						
Add Interface												
IP Routes												
Delete Network Mask Length Gateway Distance(IPv4) / Next Hop VLAN(IF	Pv6)										
· · · · · · · · · · · · · · · · ·												

Add Route Save Reset

Enter the IPv4 address and Mask Length in the table.

Choose the management VLAN ID to access that IP in VLAN table if VLAN function is required.

If multiple IP addresses are required, click Add Interface to add more IP interfaces.

Click **Save** to save the configuration.

Use new IP address to access the switch.

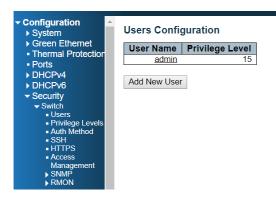
PS: All configuration changes must be saved otherwise all the changes will be lost after rebooting!

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8.7 USERS AUTHENTICATION

In the tree map on the left, expand the **Configuration** \rightarrow **Security** \rightarrow **Switch** \rightarrow **Users**



Users Configuration

User Name	Privilege Level
admin	15

Add New User

Click admin to change the current admin account setting.

Edit User

User Settings				
User Name	admin			
Change Password	No 🔻			
Privilege Level	15 🔹			

Save Reset Cancel

If multiple users are required, click Add New User Add User

User Settings		
User Name		
Password		
Password (again)		
Privilege Level	0 🔹	

Cancel Save Reset

PS: All configuration changes must be saved otherwise all the changes will be lost after rebooting!

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8.8 SAVE CONFIGURATION TO START-UP

In the treemap below, expand the Maintenance \rightarrow Configuration \rightarrow Save startup-config



Save Running Configuration to startup-config

Please note: The generation of the configuration file may be time consuming, depending on the amount of non-default configuration.

Save Configuration

Click Save Configuration to save the configuration on start-up.

8.9 PORT SPEED SETTING

The port speed settings for the OSD2892 is auto mode for copper port and 10G for SFP port. On the tree map below expand Configuration \rightarrow Ports.

 Configuration System 																	
			Etherr al Prot			n											
		orts		E	CliO												
		uration															
	_		Speed		Adv	Duplex			Adv s	need				Flow Contro	ol	F	PFC
Port	Link	Current	Configure	d	Fdx	Hdx	10M	100M		2.5G	5G	10G	Enable				Priority
*			0	۲			1				1	1					0-
1	۰	Down	Auto	۲						1	1	1		×	×		0-
2	٠	Down	Auto	۲					1	1	1	1		×	×		0-
3	٠	Down	Auto	۲		1			1	1	1	1		×	×		0-
4	•	Down	Auto	۲			•	•		1	1	1		×	×		0-
5	۲	Down	Auto	۲			•		1	1	1	1		×	×		0-
6	٠	Down	Auto	۲	•	1	1		1	2	V	1		×	×		0-
7	•	Down	Auto	۲	1	1	•	1	1	1	×.	1		×	×		0-
8		Down	Auto	۲	1	1	•			1	1	1		×	×		0-
9	•	Down	Auto	۲	1	1		1	1		Ś	4		×	x		0-
10	•	Down	Auto	۲						1	1	1		×	×		0-
11		1Gfdx	Auto	۲	2	1		•	1	1	1	Ø.		×	×		0-
12		Down	Auto	۲			•	•		1	1	1		x	×		0-
13		Down	Auto	• •			•	•			4	1		×	×		0-
14		Down	Auto		•	✓	•	•	2	1		1		×	×		0-
15		Down	Auto	• •	•	•	•	•	•	4	4	4		x	x		0-
16 17		Down Down	Auto	• •	•	•	•	•	•	e 1	e 1	¥	0	x	x		0-
17		Down	Auto	•	•	•	•	•	•	<u>ح</u>	•	e 1	0	x	x		0-
19		Down	Auto	•			•							x	x		0-
20		Down	Auto	•								1		x	x		0-
21		Down	Auto	•							2	2		x	x		0-
22	ě	Down	Auto	•			•			1	1	1		x	x	0	0-
23		Down	Auto				 Image: A start of the start of			1	1	1		x	x	0	0.
24	ě	Down	Auto	•						1	1	1		x	x		0-
25		Down	10Gbps FDX	۲					1	1	1	1		x	×		0
26	ĕ	Down	10Gbps FDX	۲	1	1			1			1		x	x		0.
27		Down	10Gbps FDX	۲	1	1		1	1		1	1		x	×		0-

Save Reset

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Maximum Excessive Frame Frame Size Collision Mode Length Check

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9 WARRANTY

Thank you for purchasing equipment designed, manufactured and serviced by Optical Systems Design (OSD). 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:

9.1 WARRANTY PERIOD

For warranty period, please call your local OSD distributor.

9.2 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 or its nominated authorised representative, for all repairs.

9.2.1 WARRANTY REPAIRS

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

9.2.2 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.

9.2.3 SITE REPAIRS

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

9.2.4 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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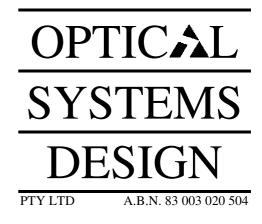
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