Quick Start Guide

OSD2524

MANAGED 20 x 10/100/1000BASE-T, 4 x

COMBO AND 2 x 1G ETHERNET SWITCH

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1 INTRODUCTION

Thank you for choosing the OSD2524 20-Port Gigabit Managed Ethernet Switch. This Quick Start Guide is designed to guide you through the installation and basic software function.

2 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.

Class 1
The OSD2524 is a Class 1 laser product (when SFPs fitted).
CLASS 1 LASER PRODUCT

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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3 OSD2524 FRONT AND REAR PANELS

3.1 FRONT PANEL



- 1. Board Status LED
- 2. USB Console Port
- 3. View LED Mode Button
- 4. View Mode LEDs Indicators
- 5. Port Status LEDs
- 6. RJ45 Copper Ports
- 7. SFP Fiber Ports
- 8. SFP LEDs
- 9. Reset Button

3.2 REAR PANEL



- 10. Earth
- Power 1 LED
 Dual Redundant Power Input
- 13. Power 2 LED

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4 Power Supply Connections

Dual Redundant DC Power Version

Connect the dual redundant power to the 4-way terminal block located on the rear of the unit. The OSD2524 DC version requires external +10 to $+36V_{DC}$ @ 40VA Max power.



FIGURE 3: DC POWER CONNECTION

TABLE 1: DC POWER CONNECTION

External Power Pin	Specification
Pin 1, Pin 3	0V (Ground Isolated)
Pin 2, Pin 4	+10 to +36V _{DC} @ 40VA max

AC Power Version

Connect AC power to the IEC connector located on the rear of the unit.

The OSD2524 AC version requires external 90 to $264 V_{AC}$ @ 50VA Max power.



FIGURE 4: AC POWER CONNECTION

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5 LED Indicators

	Function	
Board Status LED	Green – Normal status	
	Red Blinking – Internal Warning	
View Mode LED	Controlled by View LED Mode Button. Pressing the Mode button cycles	
Indicators	the Copper Port Status LED indication.	
Conner Port	Speed Mode \rightarrow Duplex Mode \rightarrow Status Mode \rightarrow Reserved \rightarrow .	
Status LED Speed Mode:		
	• Green – 1Gbps	
	• Yellow – 100MBps	
	Off – No Connection	
	Blinking - Traffic	
	Duplex Mode:	
	Green – Full Duplex	
	Yellow – Half Duplex	
	Off – No Connection	
	Blinking - Traffic	
	Status Mode:	
	Green – Connection good	
	Off – No Connection	
Fiber Port Status LED	• Green – 1Gbps	
	Off – No Connection	
	Blinking - Traffic	

TABLE 2: LED FUNCTION

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6 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 5: FITTING/REMOVING SFP CONNECTORS

7 COMBO PORTS

Note that ports 21, 22, 23, and 24 are Combo Ports and either the RJ45 ports or SFP ports will operate at one time. Each port is label accordingly and the combo ports are marked by the white outline.



FIGURE 6: COMBO PORT ALLOCATION

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8 CLI OVERVIEW

8.1 CONNECT TO CLI

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

	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vi
Open File - Security Warning. The publisher could not be verified. Are you sure you want to run this software? Image: CP210x_VCP_Win_XP_S2K3_Vista_7.exe Publisher: Unknown Publisher Type: Application From: C:\Allan\Products\2244	Stillcon Laboratories CP210x VCP Universitor Windows AP/2003 Server/Vit. Welcome to the InstallShield Wizard for Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.1.00 The InstallShield Wizard will copy Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.1.00 onto your computer. To continue, click Next.
Run Cancel Image: Always ask before opening this file Image: Always ask before openi	< Back Next > Cancel
Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vi Choose Destination Location Select folder where setup will install files.	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vi X License Agreement Please read the following license agreement carefully.
Setup will install Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vistar7 v61.00 in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	END-USER LICENSE AGREEMENT IMPORTANT: READ CAREFULLY BEFORE AGREEING TO TERMS SILICON LABORATORIES INC., SILICON LABORATORIES INTERNATIONAL PTE. LTD., AND THEIR AFFILATES (COLLECTIVELY, "SILICON LABS") HAVE DEVELOPED CERTAIN MATERIALS (E.G., DEVELOPMENT TOOLS, EXAMPLE CODE, EMBEDDABLE CODE, DLLS. SOFTWARE/COMPUTER PROGRAMS AND OTHER
Destination Folder c:\\MCU\CP210x\Windows_XP_S2K3_Vista_7 Browse	THIRD PARTY PROPRIETARY MATERIALI ("LICENSED MATERIALS") THAT YOU MAY USE IN CONJUNCTION WITH SILCON LASS' MOLI PRODUCTS. ANY USE OF THE LICENSED MATERIALS IS SUBJECT TO THIS END-USER LICENSE CONTRACT OF A SUBJECT TO THIS END-USER LICENSE OF accept the terms of the license agreement I do not accept the terms of the license agreement InstallSheld
< Back Next > Cancel	<back next=""> Cancel</back>
Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vi	Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/
Choose Destination Location Select folder where setup will install files.	InstallShield Wizard Complete The InstallShield Wizard has successfully copied the Silicon
Setup will install Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/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.	Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.1.00 to your hard drive. The driver installer listed below should be executed in order to install drivers or update an existing driver.
	Click Finish to complete the Silicon Laboratories CP210x VCP Drivers for Windows XP/2003 Server/Vista/7 v6.1.00 setup.
Destination Folder c:\\MCU\CP210x\Windows XP_S2K3_Vista_7Browse	

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Cano

Next > Cancel

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InstallShield Wizard Complete	InstallShield Wizard Complete
Silicon Laboratories CP210x USB to UART Bridge Driver Installer Silicon Laboratories Silicon Laboratories Silicon Laboratories CP210x USB to UART Bridge Installation Location: Driver Version 6.1	Silicon Laboratories CP 210x USB to UART Bridge Driver Installer
Ct/Program Files(Silabs(MCU)CP210x) Change Install Location Install Cancel	OK Change Install Location, Install Cancel
< Back Finish Cancel	K Back Finish Cance

- 1. Connect the Console Port on UUT to PC with USB cable (Type A to Type B).
- 2. Using HyperTerminal to set up the following parameters.
 - Baud Rate: 115200
 - Data Bits: 8
 - 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)

8.2 CLI COMMAND FOR IP CONFIGURATION

- *show ip interface brief*: Display the current IP address and subnet mask.
- *configure terminal -> interface vlan 1 -> ip address <IP address > (subnet mask)*: Setup the switch IP address.
- *copy running-config startup- config*: Save the current configuration to start-up configuration.

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

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9 GUI Overview

9.1 DEFAULT SETTING

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

9.2 LOG INTO THE SWITCH

- Connect a switch port to a PC, Change the PC's network IP address to connect to the switch (i.e.: 192.168.0.2).
- In a web browser, enter the URL 192.168.0.99.
- Enter the username and password.

9.3 IP CONFIGURATION

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

 ✓ Config ✓ Sys If If N T L IP Configurat 	guration stem nformation P ITP ime .og		
Mode	Host V		
DNS Server 0	No DNS server		
DNS Server 1	ver 1 No DNS server		
DNS Server 2 No DNS server 🔻			
DNS Server 3	S Server 3 No DNS server		
DNS Proxy			
IP Interfaces			

 Delete
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Add Interface

Delete Network Mask Length Gateway Next Hop VLAN

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 the multiple IP addresses are required, click Add Interface to add more IP interface.

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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9.4 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 Here	
Add New User	

Click admin to change the current admin account setting.

Edit User

User Settings		
User Name	admin	
Password		
Password (again)		
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 🔹

Save Reset Cancel

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

9.5 SAVE CONFIGURATION TO START-UP

In the treemap below, expand the **Maintenance** and expand **Configuration**, then select Save startupconfig

Maintenance
 Restart Device
 Factory Defaults
► Software
 Configuration
Save startup-config
 Download
 Upload
 Activate
 Delete

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.

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10 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:

10.1 WARRANTY PERIOD

For warranty period, please call your local OSD distributor.

10.2 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.

10.2.1 WARRANTY REPAIRS

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

10.2.2 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.

10.2.3 SITE REPAIRS

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

10.2.4 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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