GBC Photonics SRD

GBC Photonics Simple Recode Device Manual

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1. The set includes:

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- a. Simple Recode Device,
- b. Power supplier,
- c. USB Cable,
- d. Pendrive with installation file.
- 2. Device description and system requirements.

GBC Photonics Simple Recode Device (SRD) is a professional device designed to alter configuration of optical modules SFP/SFP+/SFP28/XFP/QSFP+/QSFP28/QSFP-DD/CFP/CFP2/CFP4 by modifying their memory in accordance with appropriate MSA standards.

In order to insure correct work of the device, you need a Windows 10 computer with Java software installed and an access to the Internet.

Java software can be downloaded from:

https://javadl.oracle.com/webapps/download/AutoDL?BundleId=245479_4d5417147a92418ea8b615e228bb6935

You can install SRD client's application from: <u>http://gbcphotonics.com/simple-recode-device.html</u> or from a pendrive attached to the set.

3. Description of application usage

Application interface:



Pic 1. Application Window View

- 1 Information about the optical module inserted into SRD port, containing: manufacturer's details, configuration, module type, model, serial number.
- *2* Type of optical module inserted into SRD port (interface type)
- *3* Available configuration options to recode the module that is inserted
- 4) History of recoding the inserted module.
- *5*/ Functions used to alter channel/wavelength of tunable DWDM modules
- *b*/ Information about SRD serial number, licence type.
- Progress indicator.

ATTENTION: access to MODULE HISTORY and WAVELENGTH TUNING tabs depends on the type of the licence.



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Module configuration alteration manual

- I. Connect the device to a computer having an access to the Internet and SRD program installed.
- II. Connect the device to the power supplier.
- III. Open SRD application:

SRD_ver0.3.6	- 5 X
New York Concerning	
No Simple Recode Device	

Pic 2. Application window view when the device is off

IV. Turn SRD on.

SRD_ver0.4.3			- 0)
Module detected SFP/SFP+ XFP QSFP CFP		Connected Yes Distribution (Additional)	
MODULE INFO	MODULE RECODING MODULE HISTORY Brand Name Brand Part Number	Mempack Bitrate	WRITE

Pic 3. Application window view when the device is on.



V. Insert the module into the appropriate SRD port.

Attention! Do NOT insert more than one optical module simultaneously! Inserting several optical modules into different interfaces simultaneously may damage the device!

Module etected SFP/SFF	*				Connected to Database	0 980 30FF0705404E303022700157 TYPE INTERNAL	
MODULE INFO			MODULE RECODING	G MODULE HISTORY			WRITE
		GBC PHOTONICS	Brand Name	Brand Part Number	Mempack	Bitrate	
		UNRECOGNIZED	Extreme	10302	LR	(10G)	
			Dell	SFP-10G-LR) 10G	
itrate		10.30 [Gb/s]	3com			10G	100%
art Number	٠	SP-SM31010D-GP	BROCADE	XBR-000217		10G	100%
		GPE1811230982	MOXA	SFP-10GLRLC		10G	
			Intel	E10GSFPLR		10G	
			Juniper	EX-SFP-10GE-LR		10G	PROGRESS
			Transmode	N/A		106	THOULE US
			Huawei			2.5G	
				JD094B		106	
			Arista		Arista LR		

Pic. 4. Application window view after the module has been started.

VI. Select an available configuration required and press WRITE. After pressing WRITE progress indicator will start to change.

Attention! Do NOT remove module while it is saving information! It may cause permanent damage to the module!

- VII. After the progress indicator has shown 100%, check if "Current Brand Name" field has changed correctly with the selected configuration for recoding.
- VIII. Remove the optical module from the port.



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Downloading configuration from history files

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I. Insert the optical module into the appropriate SRD port.

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II. Select MODULE HISTORY tab:

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Module detected SFP/SFF	•• X			Connected So Detailesee	(es 0.960-30/F07/54/4533027730157 TYPE: INTERNAL	
MODULE INFO			MODULE RECODING MODULE	EHISTORY		RESTORE
		GBC PHOTONICS	Timestamp	Operation	Brand Name	
		NOKIA ISAM	2020-10-08 09:51:10	WRITE	NOKIA ISAM	
		SFP	2020-10-08 09:51:04	WRITE	INTEL	
		10.30 [Gb/s]	2020-10-08 09:51:00	WRITE		
Part Number	•	SP-SM44WD020D-GP	2020-10-08 09:50:56		Transmode	100%
		GPL200320241	2020-10-08 09:50:41			
			2020-10-08 09:50:27		CUSTOM	
			2020-09-21 13:31:07			PROGRESS
			2020-09-21 13:22:17			PROGRESS
			2020-09-21 13:20:29		CUSTOM	
			2020-09-21 13:20:20	WRITE		
			2020-09-21 13:20:00	WRITE	CUSTOM	

Pic. 5. MODULE HISTORY tab view.

- III. You will see the history of recoding the optical module that is inserted into SRD port.
- IV. Select the required history record and click WRITE.

Attention! Do NOT remove module while it is saving information! It may cause permanent damage to the module!

- V. After the progress indicator has shown 100%, check if "Current Brand Name" field has changed correctly with the selected configuration for recoding.
- VI. Remove the optical module from the port.



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Instruction for wavelength/channel alteration in tunable modules

- I. Insert a tunable module into the appropriate device port SRD will detect the possibility for tuning, the application will show an additional WAVELENGTH TUNING tab,.
- II. Enter WAVELENGTH TUNING tab:

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SRD_ver0.4.3			1 2				– 13 X
Module SFP/SFP detected Tunable				Cenneste to Detebe			GBC PHOTONICS
MODULE INFO			MODULE RECODING WAVE	LENGTH TUNING MODULE HISTO			WRITE
Vendor Name		GBC PHOTONICS	CURRENT SETTINGS		NEW SETTINGS		
Current Brand Name Form Factor		SFP-TUNABLE	CURRENT WAVELENGTH	1561.40 [nm]	SELECT NEW WAVELENGTH	WAVELENGTH	
Bitrate	٠	10.30 [Gb/s]	CURRENT CHANNEL NUMBER		SELECT NEW CHANNEL NUMBER	CHANNEL NUMBER -	100%
Part Number Serial Number	*	SP-SMT5DW080D-GP GPU191230606	TRANSCEIVER STATUS	CONNECTED			
							PROGRESS
Acquired mempack list							
Indalized							

III. IN NEW SETTINGS options select a new setting: SELECT NEW WAVELENGTH or SELECT NEW CHANNEL NUMBER (DWDM channel) and click WRITE.

Attention! Do NOT remove module while it is saving information! It may cause permanent damage to the module!

- IV. You can check the new settings that have been saved in CURRENT SETTINGS window.
- V. Remove the optical module from the port.

Technical support.



Pic. 6. WAVELENGTH TUNING tab view.

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If you lack a required module configuration or in the case when the selected configuration works incorrectly, please contact our support

engineers in our Optical Modules Department at dmo.serwis@salumanus.com

