



NGC-4500 MPO MMF Kit

Quick Start Guide



The purpose of this quick start guide is to provide the basic information required to use the JDSU NGC-4500 Multiple-Fiber Push-On/Pull-off (MPO) Multimode Fiber (MMF) Kit for the Certifier40G. Topics covered in this document include:

- "Contents of the Kit" on page 2
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Contents of the Kit

The contents of the Certifier40G NGC-4500-MPO MMF kit includes:

- NGC-4500-MPO-S
 - MPO Source for Certifier40G
- NGC-4500-MPO-PM Certifier40G MMF MPO Power Meter Adapter
- NGC-4500-MPO-CORDKIT Certifier40G MMF MPO Test Reference Cords, which includes:

2	Type A MPO Adapters
2	Type A MPO Multimode Test Cables
1	Type A MPO Multimode "Set Reference" Cable
1	Type B MPO Multimode "Set Reference" Cable

Additionally, to use the Certifier40G NGC-4500 MPO MMF kit, you need to have a Certifier40G kit (one Local unit and one Remote unit) with software version 4.9 or later installed.

Front Panel Buttons

The following buttons are located on the front of the Local and Remote Certifier40G devices.



These buttons are referenced by name throughout this quick start guide.

Information

Setup (Local and Remote)

The Setup section (accessed using the SETUP button) is used to set up the device after it is powered on. The Setup section has the three navigation tabs shown below that allow you to configure the device setup as described.

- The Test Settings tab allows you to setup the AutoTest configuration including the limits, cable type, and labels for saving results.
- ٠ The System Settings tab allows you to set the system settings such as date/time, auto sleep, and auto saving of results in the memory.
- The Information tab displays the device information such as calibration status, adapter ٠ (probe) status, and adapter type.

Test Settings



Tools

Local Device To display the Tools section, select the TOOLS button.

The Tools section on the Local device allows you to perform advanced troubleshooting using the Certifier40G. It also allows you to perform Set Reference configuration and Power Meter test between local and remote measurements, which is required for accurate attenuation measurements. Selecting the Fiber Map tool will show the mapping of the fiber between local and remote without the need to reference or test for loss. The Inspect Fiber icon is also displayed in the Tools section.



Tools (on the Local device)

RemoteTo display the Tools section on the Remote device, select the TOOLS button. The Tools sectionDeviceallows you to enable or disable the channels in the MPO Light Source section.

vaveLe	ngun	8500m	-
	Channels 1		
•		۲	
To DISA	BLE / TO	GGLE Channel	s click on

Tools (on the Remote device)

AutoTest Setup



Channel Selector

Press the **SETUP** button on the Local device, and select **Channel Selector**. Select the desired channel, and confirm the selection by selecting the \checkmark button.



Cable Manufacturer

Press the SETUP button on the Local device, select Generic MMF, and select the desired Cable Manufacturer.







Set the This section describes how to set the reference for the remote configuration, the local configuration, and for Type A and Type B trunks. Reference

Remote Press the AUTOTEST button on the Remote device.

Configuration Ensure that the Remote device is on the MPO AutoTest page as shown in the following illustration.





Local Press the SETUP button on the LOCAL device. On the MPO Test Settings page, Configuration ensure the settings are correct for your setup. Then press the TOOLS button on the Local device, and select the Set Reference icon to proceed.

Channel Selector Cable Manufacturer Generic MBP O Set Connector Name Generic MBP O Set Connector Name Generic MPO	🔑 Loss Limit	0.00 dB	0	Construction of Construction
Cable Manufacturer Generic MMF © Set Provide WWCable Name MPO OM2 © Set Provide Connector Name Generic MPO © Set Figure 1 Set Test Situ 1 Figure 2 Figure 2	Channel Selector	6	•	\odot
All Connector Name MPO-OM2 © Preference Med	6 Cable Manufacturer	Generic MMF	•	Set Powe
Connector Name Generic MPO Stee Test Stite 1 Hiter Filter	Cable Name	MPO-OM2	•	Reference Meter
A) Site Test Site 1 () Inspect	Connector Name	Generic MPO	•	
Fiber	🕲 Site	Test Site 1	•	Inspect
Label Source Simple Labels 🔿	Label Source	Simple Labels	•	Fiber
Operator Unspecified 🔿	🏜 Operator	Unspecified 🤇	•	



Setting the Reference for Type A and Type B Trunks Certifer40G allows you to set a reference for both Type A and Type B configurations. The reference type should correspond to the type of link under test.



AutoTest

AutoTest is a quick way to qualify a trunk or a link for insertion loss and polarity using a button. Configure the Remote and Local devices separately before starting the AutoTest.

RemotePress the AUTOTEST button on the Remote device.ConfigurationEnsure that the Remote device is on the MPO AutoTest page shown below.



NOTE: Select the button in the bottom right corner of the display to toggle the Transmission on and off.

Transmission: Off

Transmission: On



Local Press the AUTOTEST button on the Local device to display the AutoTest summary results page.



Power Meter

Follow these steps to run the power meter test.

Remote On the Remote device, select the **TOOLS** button to display the tools section.

Device
ConfigurationThis allows you to enable or disable the channels in the MPO Light Source section.
With the MPO Light Source displayed, you can enable or disable the channels.

Select an LED icon for a channel to enable or disable that channel.





Select the

button to disable all the channels.





Local Device Configuration

On the Local device, select the **Tools** button to display the tools section.

With the Local device at the Tools display as shown below, select the **Power Meter** icon to perform a power meter test.

-





Typical Errors

 Power Meter
 Referring to the following illustrations, the error message (shown on the left) indicates the

 Errors
 Remote device is on the wrong page. Select the TOOLS button on the Remote device. Ensure that the Remote device page is the same as the center illustration rather than the illustration on the right.



Correct Page for the Remote Device





Set Reference If these error messages are displayed, it means the Remote device is on the wrong page.

and AutoTest

Errors



Press on the AUTOTEST button on the Remote device. Referring to the following illustrations, ensure that the Remote device page is the same as the illustration on the left rather than the illustration on the right.

s click



Also, ensure that the transmission is turned on.





Technical Assistance

Table 1 lists contact information for technical assistance. For the latest TAC information, go to www.jdsu.com or contact your local sales office for assistance. Contact information for regional sales headquarters is listed on the back cover of this manual.

Table 1 Techr	nical Assistance	e Centers
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Region	Phone Number	
Americas	1-855-ASK-JDSU (option #3) 1 301 353 1560	(1-855-275-5378, option #3) tac@jdsu.com
Europe, Africa, and Mid-East	+49 (0) 7121 86 1345 (JDSU Germany)	hotline.europe@jdsu.com
Asia and the Pacific	+852 2892 0990 (Hong Kong)	+86 10 6655 5988 (Beijing-China)

During off-hours, you can request assistance by doing one of the following: leave a voice mail message at the Technical Assistance number, e-mail the North American Technical Assistance Center, tac@jdsu.com, or submit your question using our online Technical Assistance Request form at www.jdsu.com.



Network and Service Enablement One Milestone Center Court Germantown, Maryland 20876-7100 USA Toll Free 1-855-ASK-JDSU (275-5378) • Tel +1-240-404-2999 • Fax +1-240-404-2195 www.jdsu.com

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