

Quick Card

T-BERD[®]/MTS-5800 Network Tester

Ethernet AOC/DAC Cable Testing

This quick card describes how to test SFP+, SFP28, QSFP+, and QSFP28 Active Optical Cables (AOC) and Direct Attached Copper Cables (DAC) using the T-BERD/MTS 5800.

Equipment Requirements:

- T-BERD/MTS-5800 equipped with the following:
 - BERT software release V27.0 or greater
 - Ethernet Options for the interface rate:
 - C510GELAN for 10GigE
 - C525GE for 25GigE
 - C540GE for 40GigE
 - C5100GE for 100GigE
 - Dual Port option for interface rate or Port 2 Monitor/Through option:
 - C5DUAL10G or C5THRU-LB for 10GigE
 - C5DUAL100G or C5THRU-LB for 25GigE
 - C5DUAL100G or C5THRU-LB for 40GigE
 - C5DUAL100G or C5THRU-LB for 100GigE



Figure 1: Dual Port T-BERD-5800v2 (TB5822P)



Figure 2: T-BERD-5882

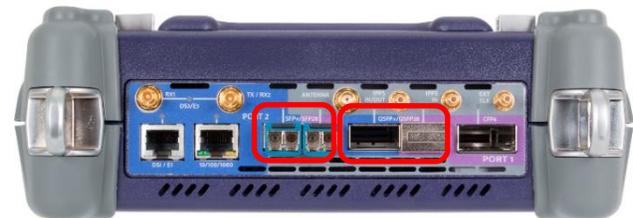


Figure 3: T-BERD 5800-100G

Connect Cable Under Test:

- Insert each pluggable part of AOC/DAC under test into the Port 1 and Port 2 SFP+, SFP28, or QSFP28 slots on the top of the T-BERD/MTS 5800.

Launch Test:

1. Press the Power button  to turn on the test set.
2. Using the **Select Test** menu, **Quick Launch** menu, or **Job Manager**, launch an **Ethernet 10GigE LAN, 25GigE, 40GigE or 100GigE, Port 1 Cable Test**; for example: **Ethernet ▶ 100GigE ▶ Cable Test ▶ P1 Cable Test**.
3. Select **Start a New Configuration (reset to defaults)** by tapping .

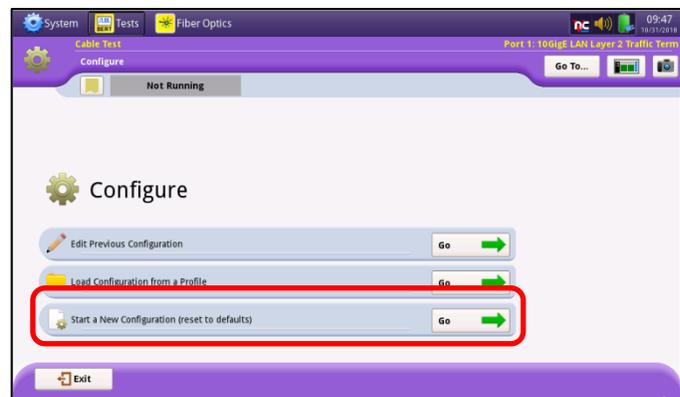


Figure 4: Cable Test Startup Screen

Configure Test:

1. Choose the **Test Duration**. **Recommended** is the suggested setting. Duration will be calculated based on the line rate and **BER Threshold**.
2. Select the **BER Threshold**. Lower values increase the **Recommended** test duration.
3. Tap **Launch Other Port**. Wait until **Other Port Running** is displayed.
4. Check the **Stop on Error** box if you don't want the test to continue in case of failure.
5. Tap  to proceed to the **Report Information** screen.

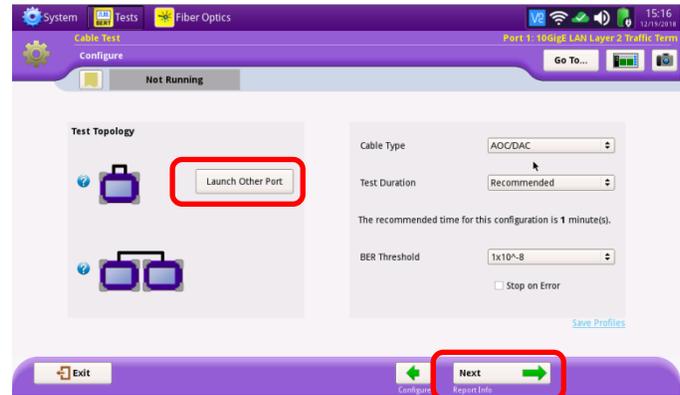
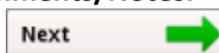


Figure 5: Configure

Report Information:

1. If you wish to save a report, you can enter the **Customer Name, Technician ID, Test Location, Work Order, and Comments/Notes**.
2. Tap  to proceed to the **Run Test** screen.

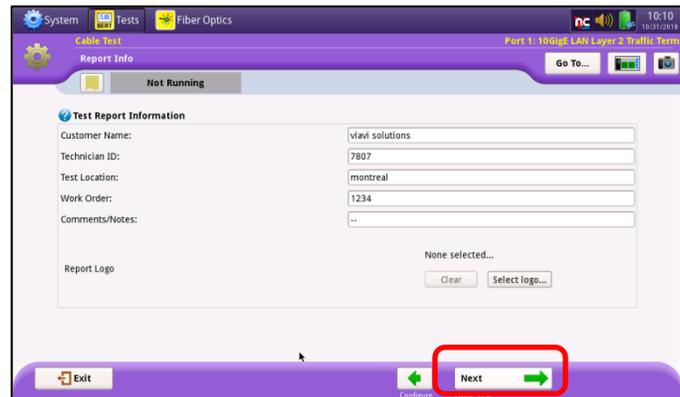
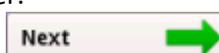


Figure 6: Report Information

Cable Test:

1. Tap **Test SFP Cable** or **Test QSFP28 Cable** to start the test.
2. At the end of the test, view the **Result Overview** tab and verify all tests pass.
3. If you are testing an AOC, select the **Optical Power (dBm)** tab and verify that the Rx Level for all Lambdas are within +/- 1 dBm of each other.
4. Tap  to proceed to the **Report** screen.

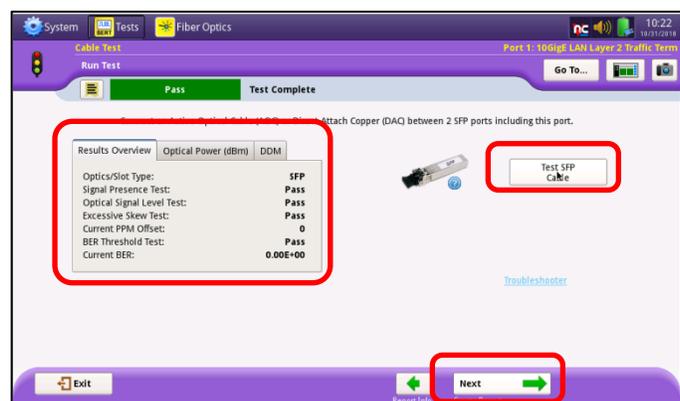


Figure 7: Run Test

Create Report:

1. Tap  to generate a test report in .pdf format
2. After viewing report, tap  twice to exit the **Cable Test** workflow.

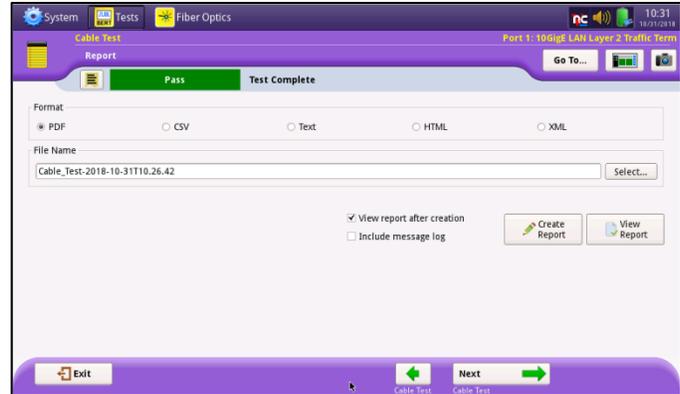


Figure 8: Create Report