

JDSU HST-3000 SAMComplete RFC-2544 and Y.1564 Loopback



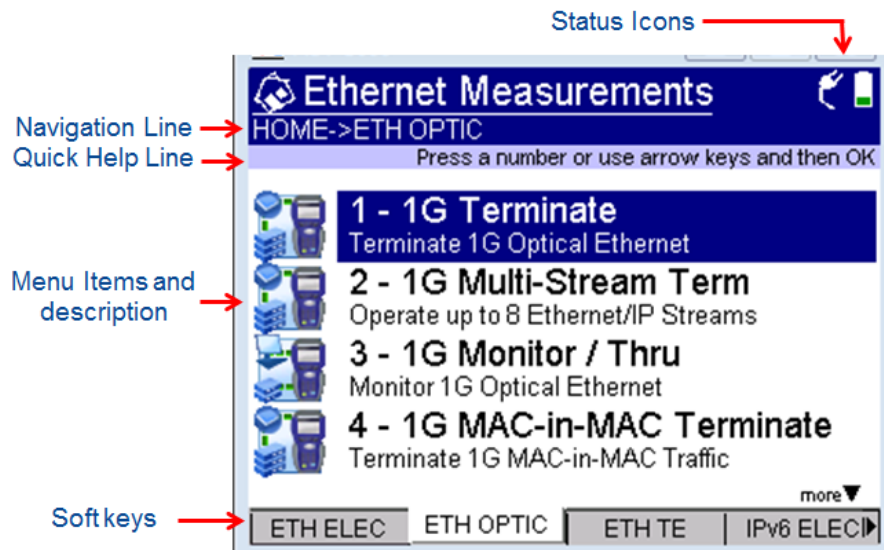
Version 1.0
February 27, 2014

1. Hardware Description

The HST-3000 is a portable test tools for Ethernet testing. The product supports a variety of subscriber interface modules (SIMs) to support Ethernet, T1/T3 and other access technologies. An Ethernet SIM is required for this test. The HST-3000 works in conjunction with a fiber cleaning and inspection kit to help turn-up and maintain Ethernet links. Menu selections are made from the HST-3000 front panel by using the keypad to select the option number or by using the arrow keys to scroll to the desired selection and pressing the OK key.

HST-3000 Front Panel:



User Interface:

2. HST-3000 Loopback

Use this procedure to set up an HST-3000 as a loopback device.

<i>Step</i>	<i>Action</i>	<i>Details</i>
1.	Install SIM	Install Ethernet Module on the HST-3000.
2.	Power On	Press the green Power Key to turn on the HST-3000. Wait approximately 1 minute for the Base Unit software to load.
3.	Insert SFP	Insert desired SFP (1000BASE-SX, 1000BASE-LX, or 1000BASE-ZX) into the optical SFP connector labeled R/T 1.



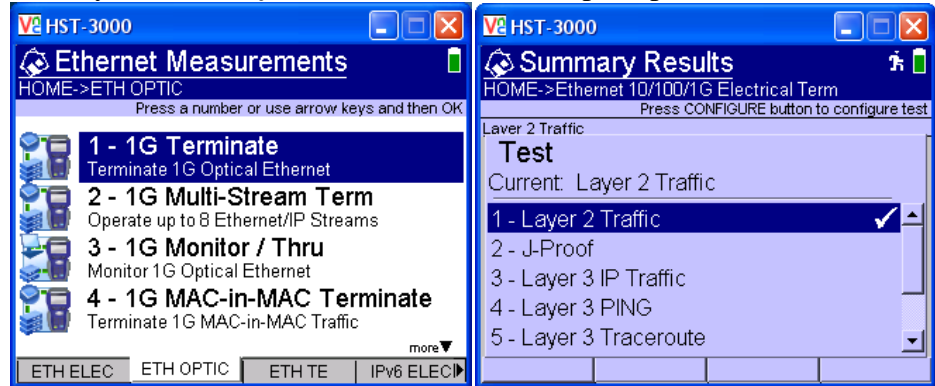
4.	Clean & Inspect	Ensure the fiber and connectors are clean using a Fiber Inspection probe.
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5.	Connect	Connect the SFP to the Ethernet port under test. <ul style="list-style-type: none"> • Use Orange Multimode jumper cables for 850 nm 1000BASE-SX. • Use Yellow Single Mode Fiber jumper cables for 1310 nm 1000BASE-LX or 1550 nm 1000BASE-ZX.
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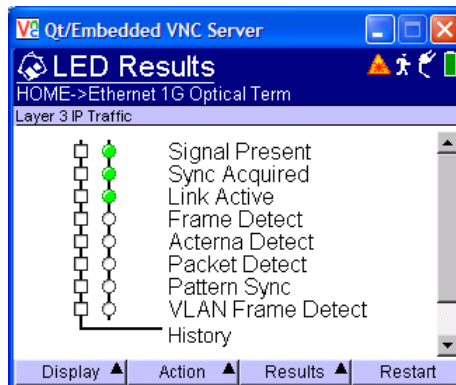
6. Launch Test App Press the **ETH OPTIC** Soft key, select **1G Terminate**, and press the **OK** key. Select **Layer 2 Traffic** at the **Test** prompt



7. Configure Test Press the **Configure** Navigation key to configure test setting. Using the **Right Arrow** key or **Settings** soft key, scroll through Settings menus and configure your test as follows. Leave all other values at default, unless specified in the Work Order.

Menu	Option	Value	Comment
Test Mode	Test	Layer 2 Traffic	.
	Y.1564 Mode	Disable	
	SAM Complete	Disable	
Link Init	Auto Negotiation	See Work Order	Set to same values as Ethernet switch port.
	Speed	See Work Order	
	Duplex	Full	

8. View Results Press the **Home** key to display Summary Results.
9. Turn Laser On Press the **Action** soft key and select **Laser On**.
10. Restart Press the **Restart** soft key to reset test results.
11. Check LED Results Press the **Right Arrow** key until **LED Results** are displayed. A **Green** Signal Present LED indicates that the HST-3000 is receiving an optical signal from the near end Ethernet Switch. **Green Sync Acquired** and **Link Active** LEDs indicate that the HST-3000 has successfully connected to the near end Ethernet switch and the Ethernet link is active.



12. Test The HST-3000 is ready to be looped up.