

Introduction:



Fig1: USB3.0 Internal receptacle Test Fixture(USB3-IR02AM)

Desktop PC's typically have USB ports on the front-panel of the enclosure. Internal cable assemblies are usually used to connect the external USB ports on the front panel to the motherboard. The internal cable assembly may connect the motherboard to the external USB ports via a daughter card, bringing the necessary signals to the USB ports. The USB standard-A connector is mounted on the daughter card, accessible to an end-user from the front of a chassis.

LiTek's USB3.0 Internal receptacle Test fixture (USB3-IR02AM) can be used to measure the Device with USB3.0 Protocol Signal Generator or Real-Time Scope after connect USB3.0 Internal cable assembly..



Fig2: USB3 Internal Cable plugged into USB3-IR02AM Test Fixture.



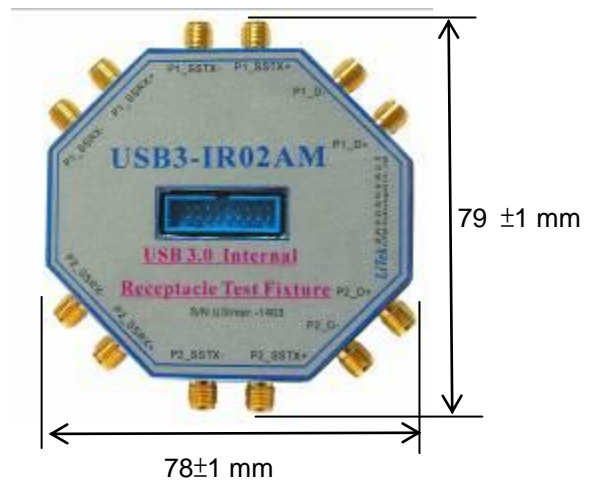
Fig3: USB3-IR02AM plugged with USB3.0 Internal DUT.

In some case, we may change the Type Internal Receptacle for user purpose. Customers can apply their considered Type Internal receptacle to do the USB3-IRXXX as the other test fixtures.

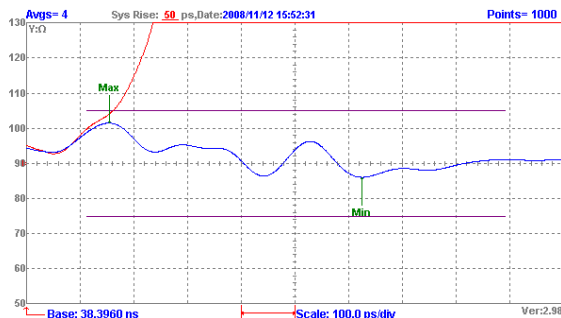
Features:

1. Good Impedance match: $100\Omega \pm 5\Omega$
2. Short Trace Length: meet USB3.0 spec.
3. Fast Rise Time: Less than 50 ps.
4. Low Intra pair skew: $\pm 2ps$
5. Low Loss design: Less than 3 dB @5GHz
6. Signal Pairs: P1_SSRX/ SSTX and P1_D+/D-, P2_SSRX/SSTX and P2_D+/D-.
7. 12 SMA connectors and Internal receptacle connectors.

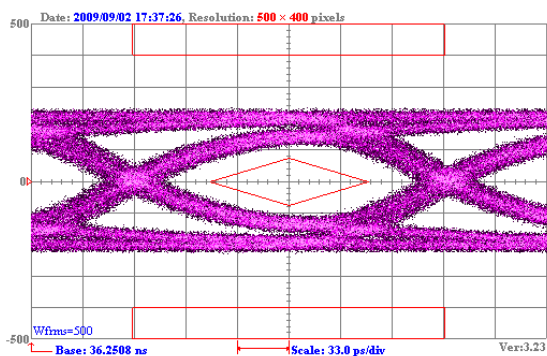
Fig4: USB3-IR02AM dimensions



USB3.0 Mated impedance



USB3.0 Eye diagram



Application and Reference:

USB3-IR02AM can be used to these listed below:

→ USB3.0 Internal Cable

USB3.0 Measurement Related websites:

→ USB Org: <http://www.usb.org>

→ Agilent: <http://www.agilent.com>

→ Tektronix: <http://www.tektronix.com>

→ LiTeK: <http://www.litek.tw>

Related LiTek Products:

Customer own USB3-IR02AM may also buy:

- USB3-AP01A: USB3.0 Type A plug test fixture.
- USB3-AR01A: USB3.0 Type A receptacle test fixture.
- USB3-BP01A: USB3.0 Type B Plug test fixture.
- USB3-BR01A: USB3.0 Type B receptacle test fixture.
- USB3-MP01A: USB3.0 Type Micro A/B plug test fixture.
- USB3-CK01A: USB3.0 2X trace Calibration Kit.
- TpNA for USB3.0 Software.

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