

# HSIT Connector Saver Board USB 3.0

## Users Guide

Version A

June 13, 2011



Quantum Parametrics is a trademark of Astek Corporation  
Web: [www.astekcorp.com](http://www.astekcorp.com)

### i. Revision History

Revision	ECO#	Date	Description
A	C00907	6/13/11	Initial Release

### ii. Reference Documents

Document #	Title	Author
-	-	-

### iii. Approval

Approver	Title	Approval Date
Joshua Sneller	Hardware Design Engineer	6/13/11

## iv. Table of Contents

HSIT Connector Saver Board USB 3.0 Users Guide	1
1 Connections	4
2 Lines Tested @ Speed	4
3 Faceplate	5
4 Installing the Connector Saver	6
5 Replacing the Connector Saver Circuit Board	7
6 Contacting Astek Corporation	8

## 1 Connections

- 1x USB3.0 Standard A
- 1x USB3.0 Micro B

## 2 Lines Tested @ Speed

Super Speed USB	
SSTX +/-	5Gbps
SSRX +/-	5Gbps

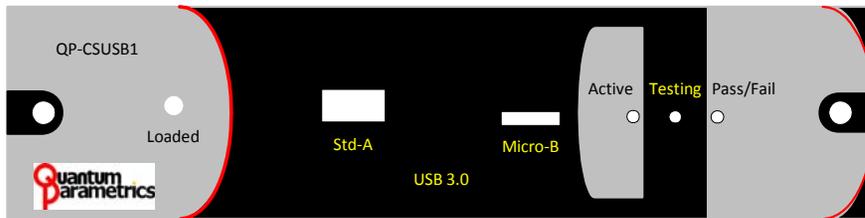
High Speed USB	
D+/-	480Mbps

DC Connections	
VBUS	DC connection test only
GND	DC connection test only
Outer Shield	DC connection test only
Inner Shield	DC connection test only



Figure 1—The HSIT USB 3.0 Connector Saver Module

### 3 Faceplate



Loaded Switch      Connectors      LEDs

- Loaded Switch—press the Loaded Switch after loading a USB 3.0 cable to the device to begin testing.
- Connectors—this Connector Saver Module supports testing of USB 3.0 Standard-A to USB 3.0 Micro-B cables.
- LEDs
  - Active—indicates that the HSIT is powered and ready to be used or is in use.
  - Testing—blinks to indicate an ongoing test.
  - Pass/Fail—blinks red to indicate a failed test and green to indicate a passed test.

### 4 Installing the Connector Saver

1. The Connector Saver Module inserts into the front faceplate of the HSIT device.



Figure 2—Connector Saver Module and HSIT device

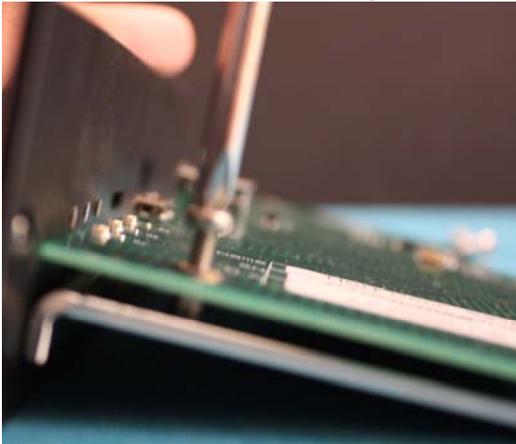
2. Align the board with the card guides mounted on the enclosure and slide the assembly into the enclosure. Be careful to insert the Connector Saver circuit board (NOT the metal bracket) into the plastic card guides in the HSIT device. (See the figure below.) Failure to insert the Connector Saver correctly can cause damage to the Connector Saver or the HSIT device.
3. Press firmly with both thumbs to cause the connector to click into place.
4. Secure the faceplate using the captive screws on the Connector Saver Faceplate.

**NOTE: Ensure ESD safe practices when handling the Connector Saver device.**

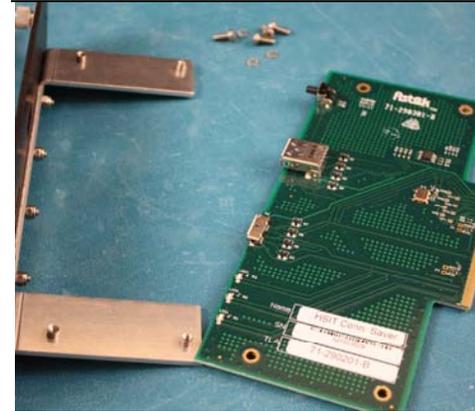


## 5 Replacing the Connector Saver Circuit Board

1. Remove the Connector Saver Module by unfastening the captive screws on the faceplate and pulling firmly until the module clicks out of place.
2. Remove the screws attaching the metal bracket and the circuit board as shown in the figures below



3. The separate board and bracket should look like this:



4. Place and fasten the new board to the bracket with the name, serial number, and TLA number facing up and the golden connector contacts facing away from the faceplate.
5. Replace the Module into the HSIT device.

## 6 Contacting Astek Corporation

Astek Corporation  
(D.B.A. Quantum Parametrics)

Astek may be contacted by phone at:

(719)260-1625 (USA)

or by email at:

[sales@astekcorp.com](mailto:sales@astekcorp.com) or visit our web site at:

[www.astekcorp.com/quantumparametrics](http://www.astekcorp.com/quantumparametrics)