



SuperImager® 8" Forensic Field Unit Complete Kit: Expansion Box and Support to Capture Data from SCSI drives, 1394 devices

Part of the SuperImager® 8" Complete Kit is a very compact, low profile, and multi-use Expansion box. It adds extra connectivity to the main unit in order to capture data from devices that are not supported by the main unit. The Expansion box is most important when the user needs to capture data from SCSI hard disk drives.

The SuperImager® 8" Field unit is supplied with a pre-installed expansion port:

The Expansion port uses express port technology to communicate with the expansion box. The expansion port on the main unit is a DVI style connector which uses a special high speed data cable to communicate with the expansion box.



- **The Supplied Expansion Box – General information:**

The user can connect the Expansion box via the supplied expansion cable to the main SuperImager® 8" Forensic Field unit.

Designed to fit low profile controllers, the Expansion Box is compact (8.0" x 5.0" x 3.4"), light weight (4.3 lbs), and built with 2 PCI and 2 PCIE- 1x slots. The PCI/PCI Express Expansion Box provides a quick and simple solution to connect to almost any PCI Express (PCIe)

enabled system. It provides a total bandwidth of up to 250MB/s. It is supplied with a 3A 12volt External Power Adapter for powering the Expansion Box, thus avoiding drawing power from the main unit

The Expansion Box comes pre-installed with a standard Express card reader.

This box is suitable for the user who needs SCSI support (see below on how to connect SCSI drives).

In general, users that have this expansion box can plug and use many kinds of PCIE/PCI controllers.

- Express card reader controller that supports:
 - 1394A/B express card
 - Mini PCIE SSD adapter(for SSD that not supported by mSATA technology)
 - PCIE memory card (Sony SxS)
 - Sonnet SAS Express card (Add 4 more SAS ports)
- SCSI controllers to support SCSI drives (see SCSI kit below).



- **The supplied SCSI KIT contains:**

A single channel SCSI controller (LVDS 320); The User can also purchase more PCIE 1x SCSI controller cards and plug them inside the empty PCEI slot inside the Expansion Box, if he needs to plug more SCSI devices.

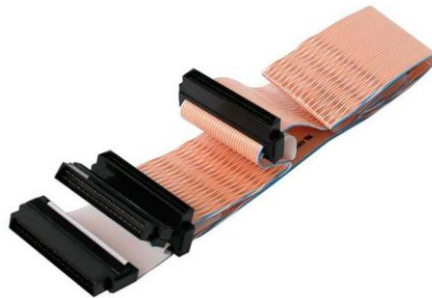
1. The controller is pre-installed and plugged into one of the PCIE slots inside of the Expansion Box, where user can connect the SCSI HDD via the SCSI VHDCI external connector. The VHDCI is a female connector in the front bracket.



2. **SCSI Adapter.** VHDCI68 Pin Male to HD68 Pin Female adapter connects the SCSI 2 channel LVDS cable to the SCSI controller



3. **SCSI cable support plugging up to 2 SCSI drives.** The SCSI cable is LVDS Ultra 320 twisted pair, 2 Channels, 4 connectors, all with HD68 pin Male



4. **SCSI terminators.** SCSI 68 Pin LVDS/SE Female Terminator plugs into the last connector on the SCSI cable



1. User will have to configure each of the SCSI hard disk drive with jumper ID (The jumper pins are on the SCSI hard disk drive) in order for the OS to recognize the 2 SCSI drives plugged into the same cable as 2 separate devices

2. For support of 50 Pin Narrow SCSI drives, user can purchase 50 Pin Narrow Female to 68 Pin Female adapters from a third part supplier. 68 Female ADP-9056 from CS Electronics at <http://www.cs-electronics.com/scsi1-scsi2-adapt.htm>



3. It is not recommend to use more than two SCSI hard disk drives, due to the limited 250MB/s bandwidth of the Expansion Box

- **The Supplied 1394A/B Express Card Adapter:**

The user should insert the 1394A/B dual port into the Express Card reader of the Expansion Box. The Adapter is hot pluggable. The user will have to power the 1394 Devices with external power.



The user should use 1394 data cables (not supplied) to connect the 1394 hard disk drive to the 1394 adapter.