



## **SuperImager Plus 8" Field Unit: Express Card Option or Expansion Ready Unit with Options**

There are two hardware options that are available to choose from. As indicated below, only one of the options needs to be pre-installed and enabled on the SuperImager Plus at the time the main unit is purchased.

### **1. Option 1: Express Card Port Option**



The user can plug directly into the express port many different kinds of express card adapters, including 1394A/B, Mini-PCIE SSD adapters, PCIE Memory card (Sony SxS), and more. This option saves the user from having to use a bulky and expensive expansion box. In most cases, this option is sufficient for normal operations, but note this option cannot be used to plug the expansion box for SCSI support.

### **2. Option 2: Expansion ready unit with Expansion Box options**

Using express port technology, the main unit can be pre-configured at the time of purchase with an expansion port (DVI style).



- **Expansion Box Option:**

Users can connect the Expansion box via the supplied expansion cable to the main SuperImager Plus 8" Field unit.

The expansion box is a very compact, low profile unit with dimensions of 8" x 5.4" x 3.4," weighs only 4.3 LB, and has 2 PCIE- 1x + 2 PCI slots. Users can plug in any PCIE(1x)/PCI controller that has a low profile mounting bracket in order to install and use in this box.

The expansion box is pre-installed with an express card reader.

PCI/PCI Express expansion boxes provide a quick and simple solution to I/O expandability on almost any PCI Express (PCIE) enabled system. The external expansion chassis adds two full length (38cm) PCI slots (32-bit/33MHz), as well as two PCIE 1x (single lane) slots to the host computer system through a single PCI express connection. It also provides total bandwidth of up to 250MBps from the PCIE 1x host controller card. The expansion box is supplied with 3A 12-volt external power adapter to power the expansion box and avoid having to draw power from the SuperImager Plus 8" Field unit.

This box is ideal for users who need 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 supports:
  - 1394A/B express card
  - Mini PCIE SSD adapter (for SSD that are 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 SCSI KIT Option contains:**

- i. **One SCSI LVDS 320 single channel controller.** (Users can purchase up to 2 additional controllers if they need to plug and support more devices.) The controller is pre-installed into the expansion box. The user connects the SCSI HDD via the VHDCI Female connector on the front bracket.



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



- iii. **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.



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



- Users will have to set a different ID jumper on each SCSI drive in order for the OS to recognize the 2 SCSI drives plugged on the same cable.
- For support 50 Pin Narrow SCSI drives, users can purchase 50 Pin Narrow Female to 68 Pin Female adapters from a third part supplier. For example, use a 68 Female ADP-9056 from cs-electronics, <http://www.cs-electronics.com/scsi1-scsi2-adapt.htm>



- We do not recommend using more than two SCSI drives, due to the limited 250MB/s bandwidth of the box.