Instruction Sheet – SD Card to USB Converter Usage (for Pro HMI board swap)

SmartPAC Pro HMI boards without an active SD Card slot that are used for board swapping need an SD Card to USB Converter (see Fig 1) when replacing an HMI board that uses an SD Card.

Figure 1. *SD Card to USB Converter showing an example SmartPAC Pro SD Card inserted.*

HMI boards with an inactive SD Card slot can be identified by the black heatsink over its SOM as shown in Figure 2. Note that HMI boards with the gold color heat spreader are indicative of those that use the SD Card.

An SD card to USB Converter is provided when receiving a replacement HMI board in order to utilize the external USB port for data restoration.

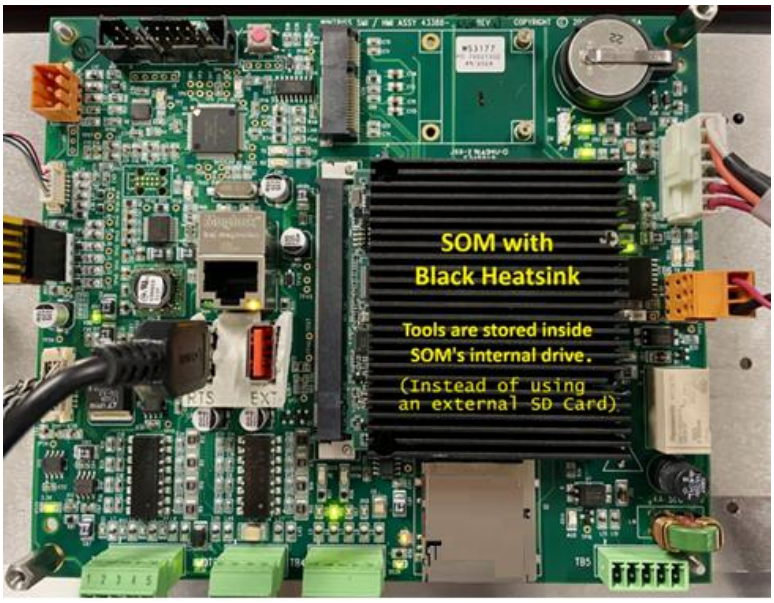

Figure 2. *SmartPAC Pro HMI Bd Showing SOM w/Black Heatsink and No SD Card Present.*

These HMI boards are prepared with a generic serial number which allow for a one-time inheritance of the SD Card's serial number and its contents from the board being replaced. The content essentially consists of Tool, Initialization and Options data.

Proceed with the board swap as normally performed (per Wintriss instruction sheet 1143500) except do not insert the SD Card into the replacement board's SD Card Slot. The system will start up using a temporary serial number assigned internally. The currently loaded Tool will be automatically reestablished.

After startup and the SmartPAC Pro's user interface appears, turn the Prog/Run switch to Prog (if not already in that mode) then plug in the SD Card to USB Converter and with the SD Card inserted into the USB port on the front of the SmartPAC Pro.

Figure 3. *SD Card to USB Converter Plugged into a SmartPAC Pro External USB Jack.*

After less than 30 seconds, a yellow prompt should appear as shown in Figure 4.

Figure 4. *Yellow Prompt to Inherit the SD Card's Serial Number and Data*

Select Okay and the system will now inherit the contents of the SD Card and automatically perform a reboot when completed. When the reboot commences, remove the SD Card to USB Converter.

After the reboot, the system should now contain everything from the SD Card within its SOM's internal memory storage.

Check that the currently loaded tool conforms to expectations, otherwise edit it in program mode then reload. Also review all the restored settings to make sure they are conforming to current expectations. In addition, verify other functionality such as Network settings if needed.

Alternative Method

In the event that the SD card from the original HMI board is either not working or previously omitted, then a prior USB disk backup from the system can be leveraged. If this is the case, then you may directly inherit the backup's serial number and its contents via the Backup/Restore menu.

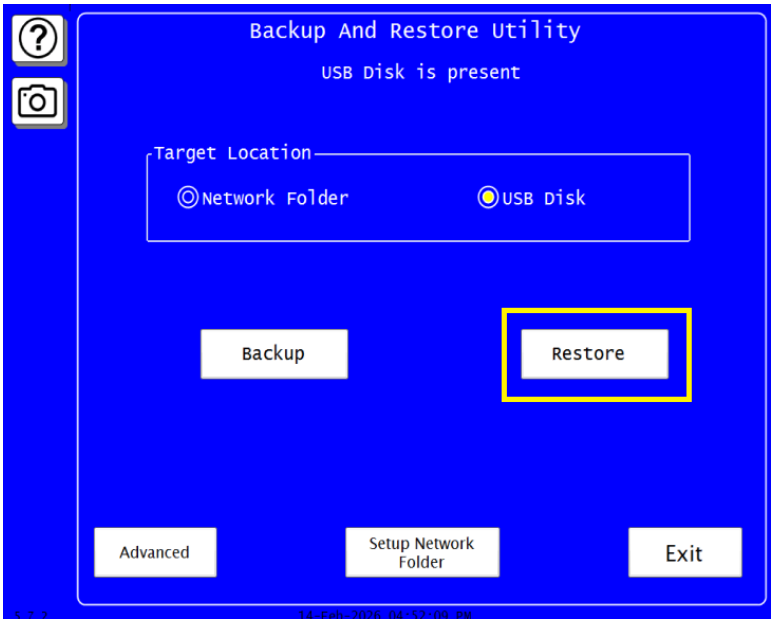

Figure 5. *Backup and Restore Screen*

Before selecting Restore make sure the target USB disk (with the correct backup) is inserted into the front USB port of the SmartPAC Pro.

The Pro will scan the target USB disk and present a list of available backups to choose from as shown below in Figure 6. Be sure to select the correct serial number for the system being restored then select Okay to continue.

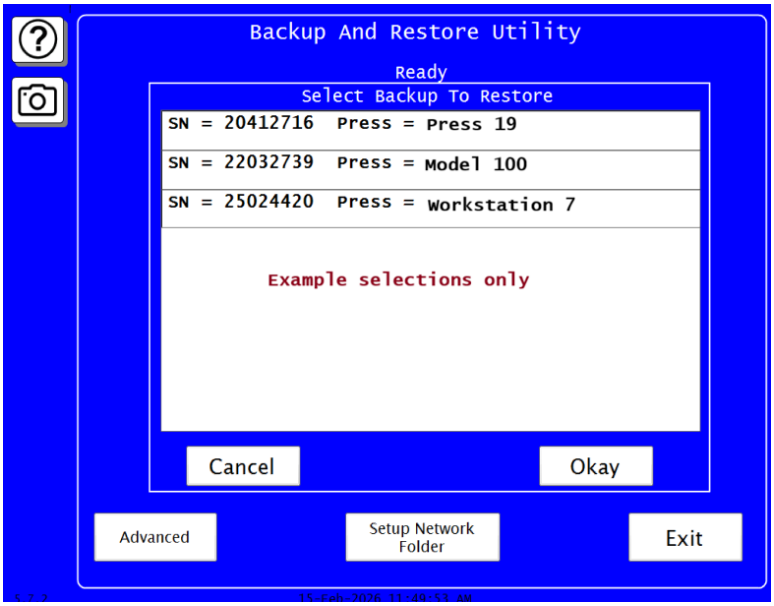

Figure 6. *Example List of Backups Found on the USB Disk.*

As previously mentioned, any time after a Restore is performed, review all the restored settings to make sure they are conforming to current expectations. In addition, make sure to verify other settings such as Network configuration if needed.

Need help?

Wintriss Technical Support is available to assist with questions, backups, or service needs.
Toll Free: 800-586-8324 option 2