

Instruction Sheet – SmartPAC PRO Second Ethernet Port Installation

The following procedure shows you how to install the mini PCIe network card with second ethernet port into the SmartPAC PRO Standard and Pendant Configuration units (Figure 1 below). SmartPAC PROs, with HMI assembly revision greater than or equal to D, can have a second ethernet port by inserting a card (Wintriss part number 4353001) into its mini PCIe slot. The main advantage of having a second ethernet port is it allows for separating the network activity. For example, the default onboard network port can be used for data collection over the factory network while the second port can be dedicated to a control network. The control network can thus be isolated from the factory network which eliminates the need for assigning more IP address and keeps the traffic local to itself.

Please read all instructions below before proceeding with the installation.

Unpacking the Replacement Board

Perform the following steps as soon as you receive your SmartPAC PRO Second Ethernet Port mini PCIe network card:

CAUTION

DAMAGE TO BOARD FROM STATIC DISCHARGE

Ground yourself before touching circuit boards by touching a large metal object such as the press or wearing a connected ground strap. Static electricity can destroy electronic components.

Failure to comply with these instructions could result in property damage.

1. Making sure you are statically discharged, carefully unpack the mini PCIe network card, and remove it from its anti-static bag.

The 4353001 kit consists of the following:

- 1x PCIe Mini Card hardware assembly.
- 1x Gigabit RJ-45 Ethernet adapter cable.
- 1x Hardware kit which contains (2) mounting screws.

NOTICE

Be sure to save the shipping box and anti-static bag in case you need to return the mini PCIe network card for any reason.

2. Verify that the board has not been damaged during shipment. If damage has occurred, contact Wintriss Tech Support immediately.

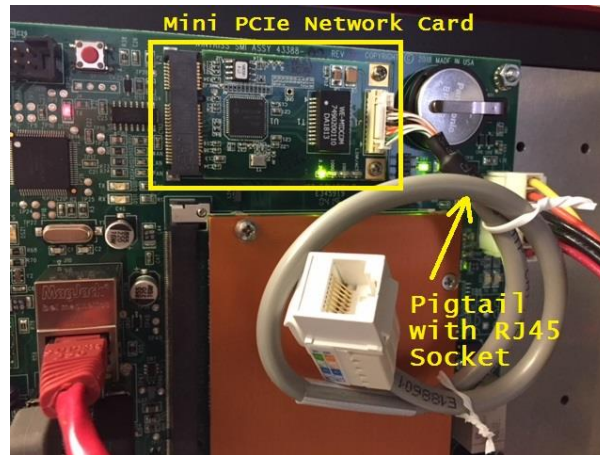


Figure 1. Mini PCIe NIC Module with RJ45 Socket Pigtail

Installing the Replacement Board

To install the SmartPAC PRO Second Ethernet Port board, perform the following steps:

WARNING

ELECTRIC SHOCK HAZARD

- Ensure that the power source is off before you replace electronic components in a control.
- Disconnect power from the machinery it is connected to before replacing electronic components. This includes disconnecting power to the machine control and motor.
- Ensure that servicing is performed by qualified personnel.

Failure to comply with these instructions could result in death or serious injury.

Standard System Installation:

- 1.) Shut off the power to the SmartPAC PRO.
- 2.) Open the SmartPAC PRO enclosure or console.
- 3.) Make sure you are statically discharged.

- 4.) Carefully remove the mini PCIe network card from static bag and insert into P2 on the HMI board and use the two screws included in the kit to secure the board.



Figure 2. Mini PCIe NIC Module Inserted into P2 Connector

- 5.) Next, connect the RJ45 pigtail to the J1 Connector on the module, loop the wire under the HMI board and tie wrap to the standoff as shown in Figure 3 below.

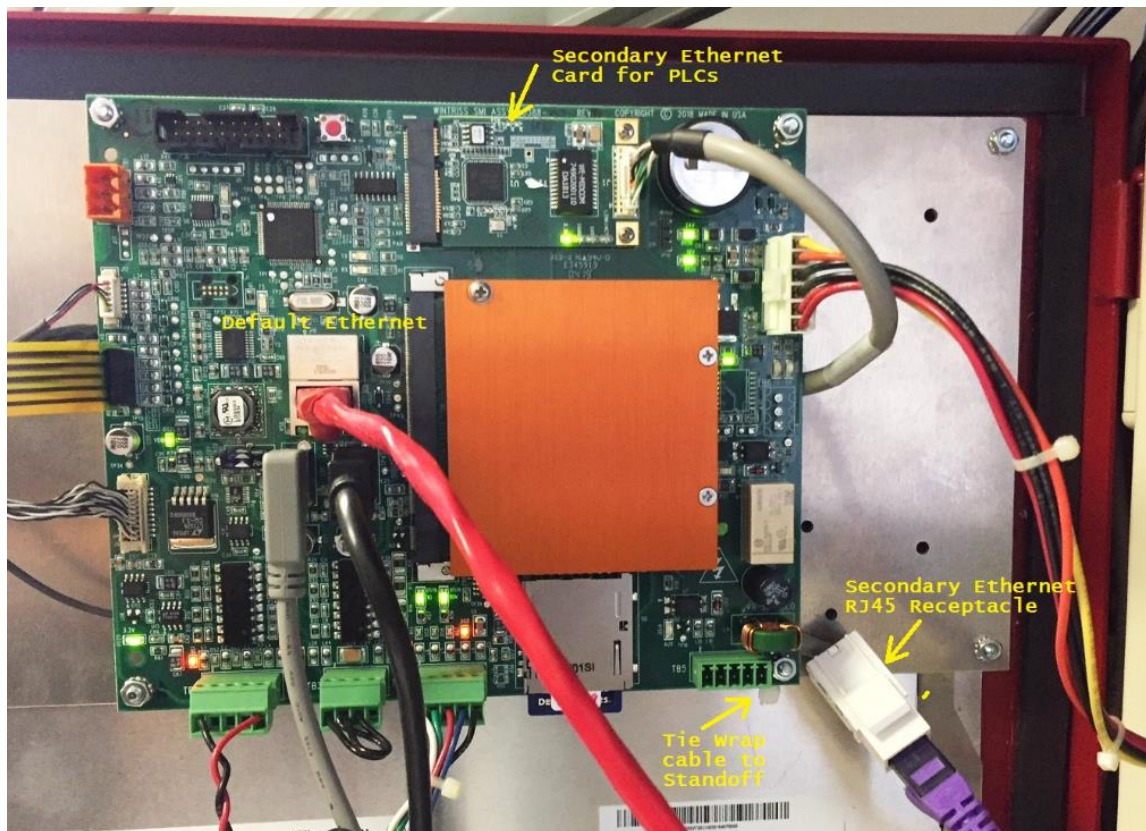


Figure 3. Mini PCIe Module Pigtail with RJ45 Socket Installed

Pendant System Installation:

- 1.) Shut off the power to the SmartPAC PRO.
- 2.) Open the SmartPAC PRO Pendant enclosure.
- 3.) Make sure you are statically discharged.
- 4.) Carefully remove the mini PCIe network card from static bag and insert into P2 on the HMI board and use the two screws included in the kit to secure the board as shown in Figure 2 above.
- 5.) Next, connect the RJ45 pigtail to the J1 Connector on the module, insert the RJ45 connector in the mounting flange available on the USB extender below the HMI board as shown in Figure 4 below.

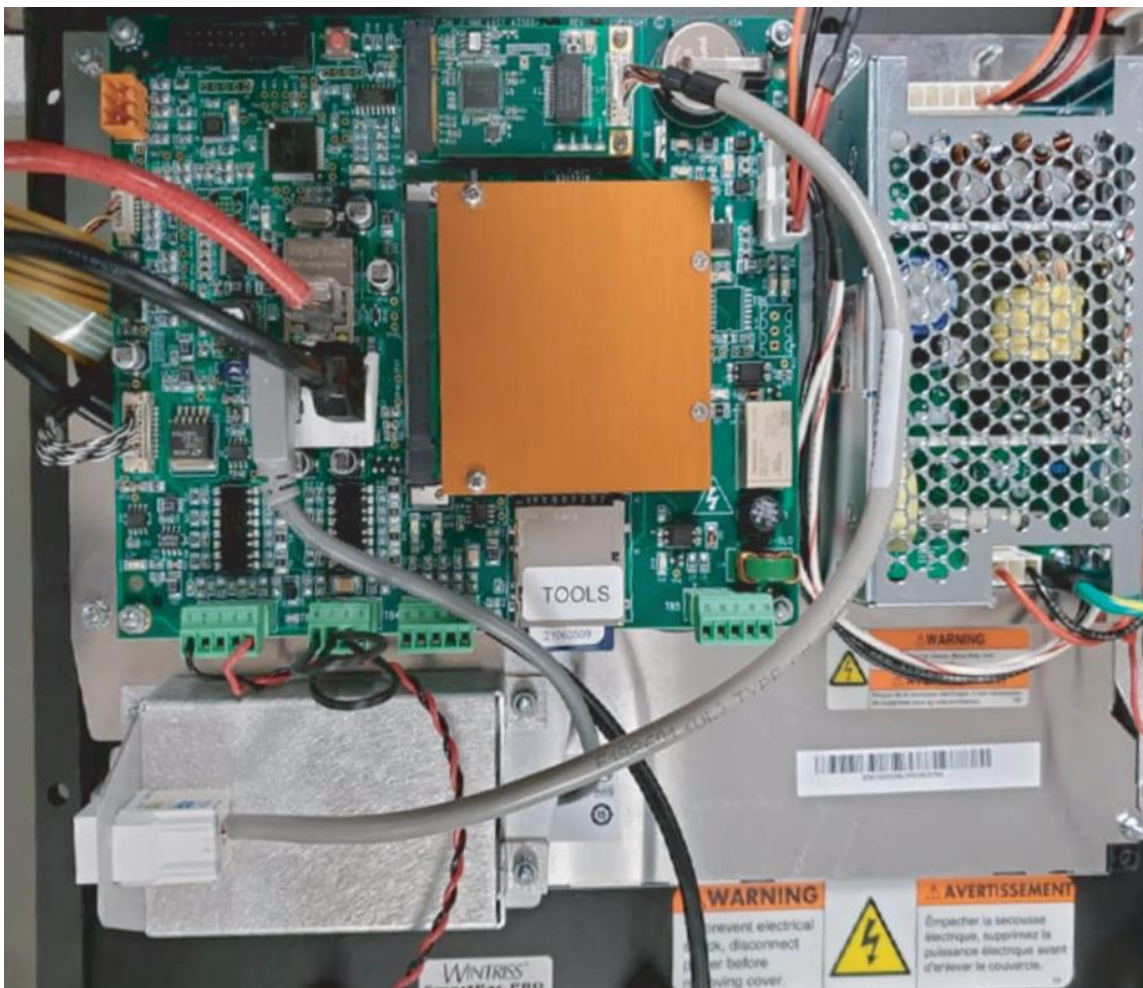


Figure 4. Mini PCIe Module Pigtail with RJ45 Socket Installed into USB Extender Flange

Configuring the Second Network Port

After completing the mini PCIe network card insertion, power up the SmartPAC PRO and go to the Initialization mode, Network Settings menu item. Here you should see the presence of the second network port as shown in Figure 5.

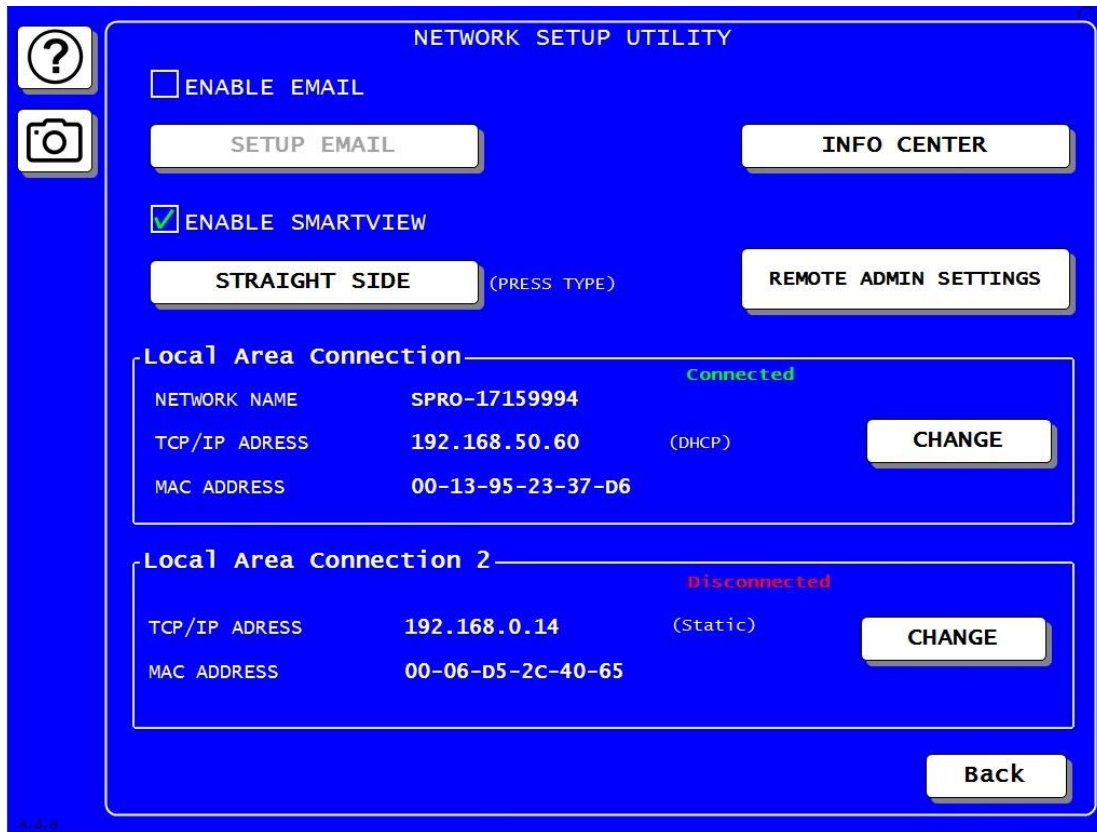


Figure 5. Network Setup Screen showing the presence of Local Area Connection 2

If you do not see “Local Area Connection 2” and instead see “Not Installed” as shown in Figure 6, then something is wrong. Power down and check that the card and cable are properly inserted.

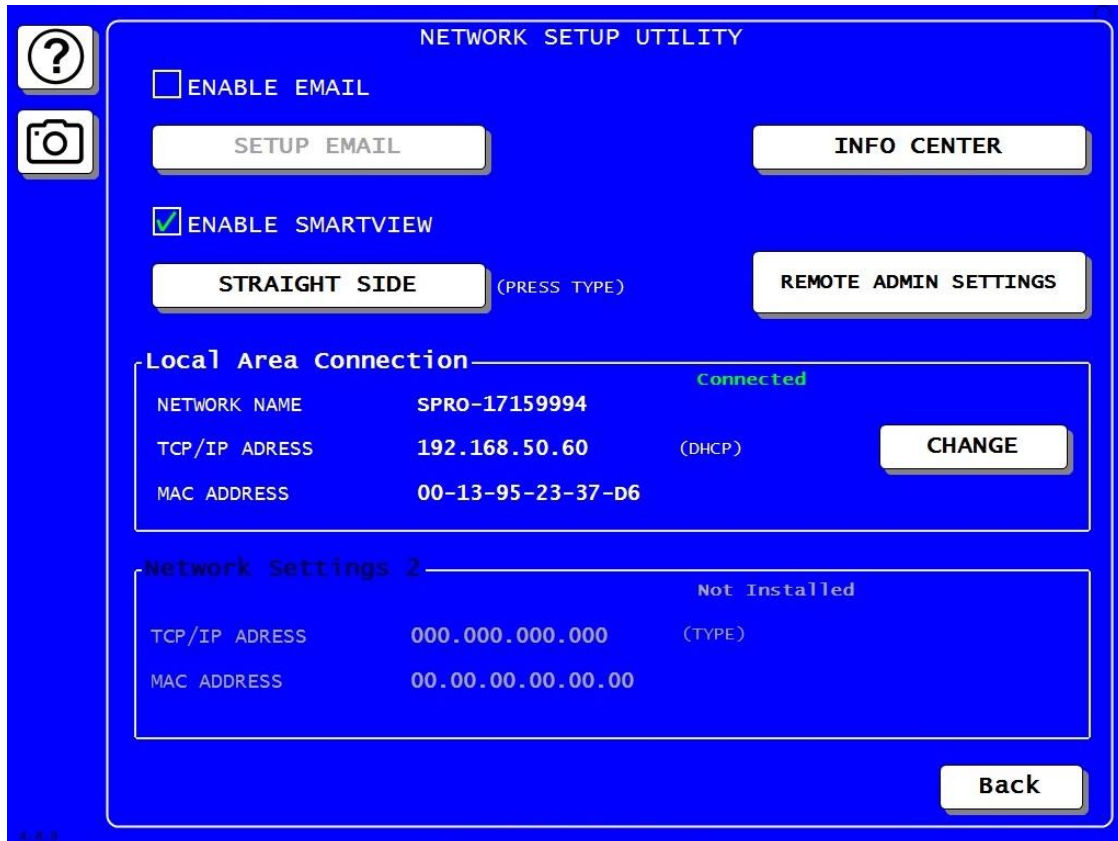


Figure 6. Network Setup Screen showing the no second ethernet port installed.

Once you can see the second network port shown on this screen then use the “Change” button to set the IP address information per that given to you by your IT or controls contact. When the cable is connected to a valid device the red status message will go from red “Disconnected” to green “Connected”. You must exit this screen and go back into it to refresh the status.

NOTICE

SmartPAC PRO will announce the loss of the communication if it detects a loss of connection.