720i, 820i, CW-90/90X, iQube, iQube 2

USB Interface Card Installation Instructions

PN 93245

The USB interface card allows the 720i, 820i, CW-90/90X, iQUBE, and iQUBE^2 to communicate with a host personal computer. Use the following procedure to install USB interface cards:

1. Disconnect indicator from power source.

⚠️ **Warning** *Disconnect power before removing indicator backplate.*

2. Place indicator face-down on an antistatic work mat. Remove screws that hold the backplate to the enclosure body.

⚠️ **Caution** *Use a wrist strap to ground yourself and protect components from electrostatic discharge (ESD) when working inside the indicator enclosure.*

3. If using the 820i, remove the J1/J10 port selection jumper (see Figure 1). Removing the jumper disables RS-232 communications through connector J10. Connections for simultaneous RS-232 and USB communications are provided on the USB interface card, with USB data handled by Port 2, RS-232 data by Port 3.

4. Carefully align the option card connector on the CPU board. Press down to seat the option card in the CPU board connector.

5. Use the screws and standoffs provided in the option kit to secure the other end of the option card to the CPU board.
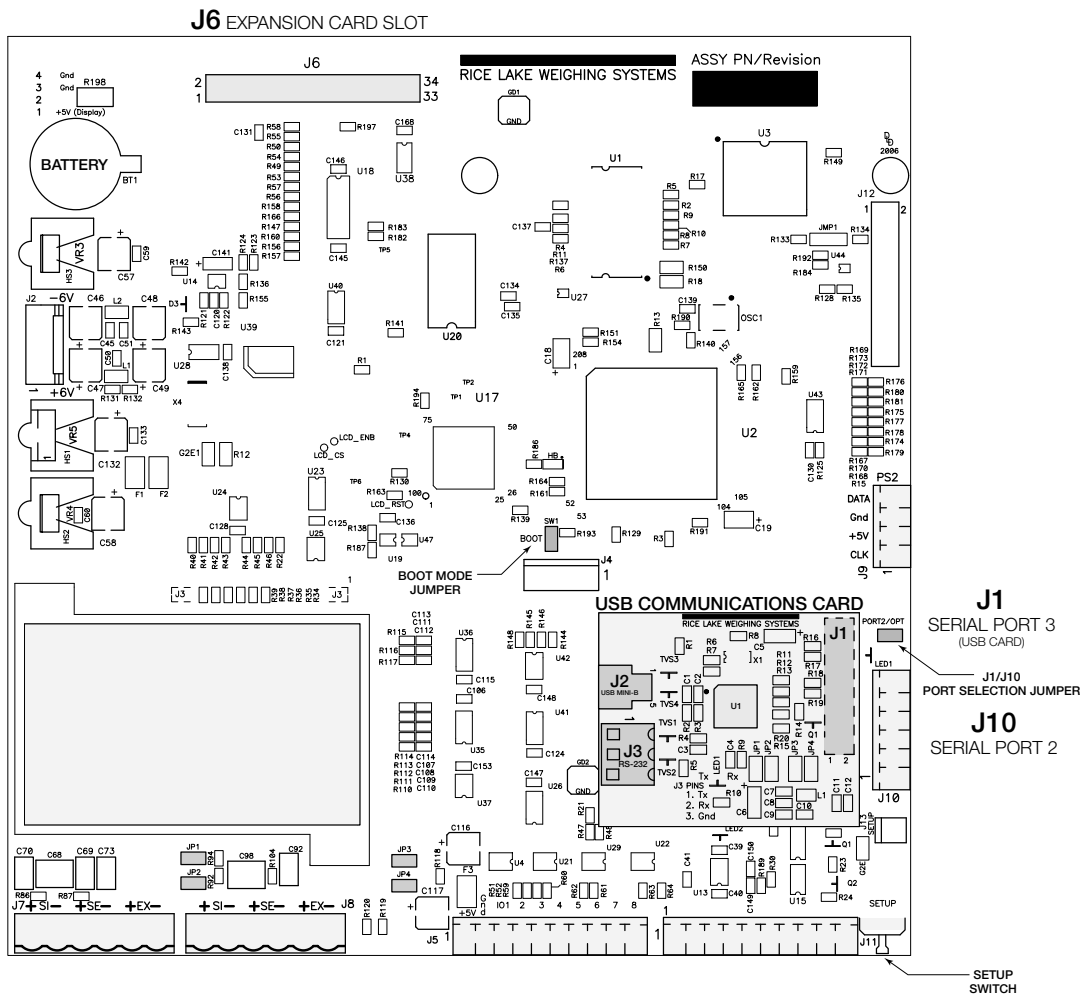

Figure 1. USB Interface Card Installed on 820i CPU Board

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6. Connect the USB cable to the option card.

> **Note** *For permanent installations, the USB cable can fit through the large cord grip by modifying the nylon seal ring. Note that this may compromise the NEMA 4 rating.*

7. Use cable ties to secure loose cables inside the enclosure. Once cabling is complete, position the backplate over the enclosure and reinstall the backplate screws. Use the torque pattern shown in Figure 2 to prevent distorting the backplate gasket. Torque screws to 15 in-lb (1.7 N-m).
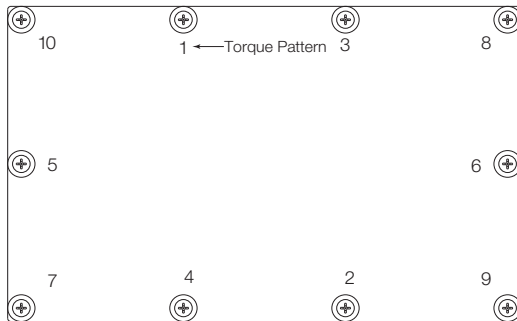

Figure 2. Torque pattern

8. Ensure no excess cable is left inside the enclosure, then tighten cord grips.
9. Reconnect power to the indicator.

Driver Installation

Before using the USB interface card, you must install the appropriate USB driver for the personal computer operating system used to connect to the Rice Lake product. Drivers and installation instructions for various operating systems can be downloaded from the web site below:

`http://www.ftdichip.com/Drivers/VCP.htm`

All installed option cards are recognized when the unit is powered on. No hardware-specific configuration is required to identify the newly-installed card to the system.

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