Industrial Grade 4-Port USB Hub

Table 1. LED indicators.

LED Type	State	Description
*USB Power	ON	The hub is running on USB power. External power is not applied. The hub can supply up to 100 mA power per downstream port.
	OFF	The hub is either using external power, or no power is present.
External Power	ON	External power is applied and an active host connection exists. The hub will provide 500 mA per downstream port.
	OFF	The hub is bus powered (ICI200A only) or no power is present (ICI202A).
Port LEDs 1–4	ON	Port is active and ready for use.
	OFF	Port has a fault. Power may need to be cycled.

*USB Power LED is on ICI200A model only.

Troubleshooting

Problem: The hub is installed, but a downstream device isn't working.

Soluton: Some USB devices get their power from the USB cable. If you are using the ICI200A without an external power supply, it will only provide 100 mA to the downstream ports. If your devices need more power, connect an external power supply to the ICI200A. It will then provide 500 mA to the down-stream ports.

Problem: Do I need drivers for the hub?

Solution: No, the operating system will detect it and install it automatically.

Problem: How can I be sure it has been installed?

Solution: The new hub will be listed in the Device Manager.

Black Box Tech Support: FREE! Live. 24/7. Tech support the way it should be.

Great tech support is just 30 seconds away at 724-746-5500 or blackbox.com.

Troubleshooting (Continued from page 5)

Problem: Can I use USB 1.1 and USB 2.0 devices together?

Solution: Yes. USB 2.0 is backwards-compatible with USB 1.0 and 1.1.

Customer Support Information

Order toll-free in the U.S.:
Call 877-877-BBOX
(outside U.S. call 1-724-746-5500)

FREE technical support
24 hours a day, 7 days a week:
Call 724-746-5500 or
fax 724-746-0746

Mailing address:
Black Box Corporation
1000 Park Drive
Lawrence, PA 15055-1018

Web site: www.blackbox.com

E-mail: info@blackbox.com

Industrial Grade 4-Port USB Hub

Quick Start Guide

Isolated and non-isolated models available.

What's Included

Your package should include the following items. If anything is missing or damaged, contact Black Box Technical Support at 724-746-5500 or info@blackbox.com.

- (1) Industrial Grade 4-Port USB Hub
- (1) USB cable
- (2) panel-mount adapters and (4) mounting screws
- (1) DIN rail adapter and (3) mounting screws
- This quick start guide

NOTE: A power supply is not included.

Overview

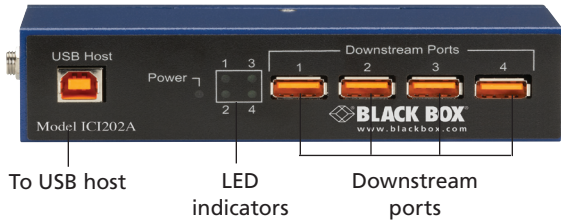Figure 1 shows the front view of the hub. Figure 2 shows the side view.

Figure 1. Front view.

Figure 2. Side view

Installation Steps

Step 1: Mounting

DIN rail mounting: Attach the DIN rail bracket with the flat surface of the bracket facing the back of the hub, as shown in Figure 3.
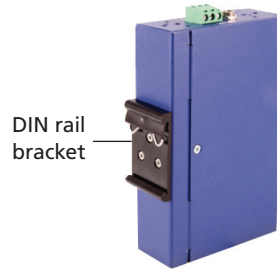

Figure 3. DIN rail bracket attached to hub.

Panel mounting: Attach the panel-mount brackets to either side of the hub. They can be attached in (4) positions: up, down, forward, and back.
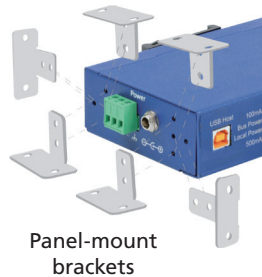

Figure 4. Panel-mount bracket positions.

Step 2: Connect the Power Supply

ICI200A: The non-isolated Industrial Grade 4-Port USB Hub (ICI200A) can operate without an external power supply. When the hub is running on USB power, it provides a maximum of 100 mA to each of the downstream ports.

ICI202A: Unike the non-isolated Industrial Grade 4-Port USB Hub (ICI202A) will not operate without an external power supply. You can use the detachable terminal block input or the locking barrel jack. The terminal block is polarity protected.

When powered, the ICI200A and ICI202A will provide 500 mA to each downstream port. They require 10 to 30 VDC of external power and will consume a maximum of 16 W.

NOTE: The ICI202A adds 4-kV isolation.

Step 3: Grounding

We recommend that you ground the chassis. Connect a grounding wire from the green ground lug to a good source of earth ground.

Figure 5. Grounding the chassis.

Step 4: LED Status

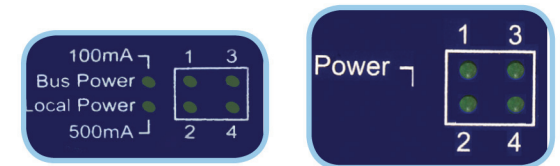Figure 6 shows the LEDs on the ICI200A and ICI202A. Table 1 describes their functions.

Figure 6. Left: ICI200A; right: ICI202A.