

5 | Troubleshooting

The BB-UHR204 hub is installed, but a downstream device does not seem to be working.

Some USB devices derive their power from the USB cable. If you are using Model# BB-UHR204 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 BB-UHR204. It will then provide 500 mA to the downstream ports.

Do I need drivers for a USB hub?

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

How can I be sure it has been installed?

The new hub will be listed in your Device Manager.

Can I use USB 1.1 and USB 2.0 devices together?

Yes. USB 2.0 is backwards compatible with USB 1.1 and USB 1.0.

What is the difference between the BB-UHR204 and the BB-UHR304?

Both hubs are ruggedized for tough industrial applications. The BB-UHR304 also includes 4 kV isolation.

UL Information

SUITABLE FOR USE IN CLASS I/DIVISION 2, GROUPS A, B, C AND D HAZARDOUS LOCATIONS, OR NON-HAZARDOUS LOCATIONS ONLY.

WARNING - EXPLOSION HAZARD - SUBSTITUTION OF ANY COMPONENT MAY IMPAIR SUITABILITY FOR CLASS 1/DIVISION 2.

WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS."
OR equivalent warning statement.

INSTALL IN ACCORDANCE WITH CONTROL DRAWING NUMBER 9340R0.



QUICK START GUIDE



BB-UHR204 & BB-UHR304 *Non-Isolated* *Isolated*

Industrial 4-port USB Hub

Before you begin, be sure you have the following:

- + 4-port Industrial USB Hub
- + USB Cable
- + Panel Mount Adapters
- + DIN Rail Adapters
- + Power Supply (optional, not included)

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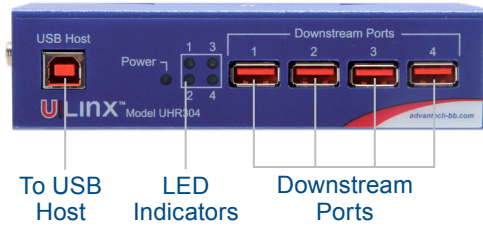
Phone: (815) 433-5100 | Fax: (815) 433-5109

www.advantech.com | e-mail: support@advantech-bb.com

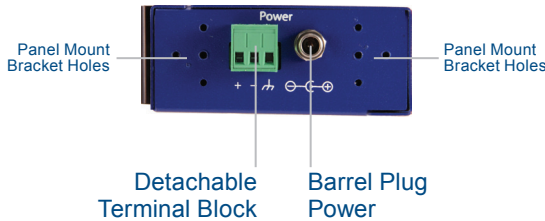
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Product Overview

Front View



Side View



1 | Mounting

DIN Rail Mounting

Attach the DIN rail bracket with the flat surface of the bracket facing the back of the hub.



Panel Mounting

The panel mount brackets can be attached to either side of the hub in four (4) positions: Up, Down, Forward, Back.



2 | Connect Power Supply

USB Power

The non-isolated BB-UHR204 can operate without an external power supply (USB power-only mode). When the hub is running on USB power it provides a maximum of 100 mA to each of the downstream ports.

When an external power supply is used the BB-UHR204 will provide 500 mA to each of the downstream ports.

External Power

Unlike the non-isolated BB-UHR204, the isolated BB-UHR304 will not operate without an external power supply. You can use the detachable terminal block input or the locking barrel jack. Terminal block is polarity protected.

When powered, BB-UHR204 and BB-UHR304 provide 500 mA to each downstream port. They require 10 to 30 VDC external power and consume a maximum of 16 W.

3 | Grounding

Advantech strongly recommends that you ground the chassis. Connect a grounding wire from the green ground lug to a good source of earth ground.



+ You can order a grounding strap (Model# BB-CU15B) at: www.advantech.com

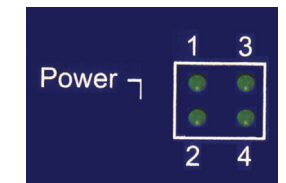
4 | LED Status

Model BB-UHR204 Non-Isolated



| LED Type | State | Description |
|----------------|-------|--|
| USB Power | ON | Hub is running on USB power. External power is not applied. Hub can supply up to 100 mA per downstream device. |
| | OFF | 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 | Hub is bus powered or no power is present. |
| Port LEDs | ON | Port is Active and ready for use. |
| | OFF | Port has a Fault. Power may need to be cycled. |

Model BB-UHR304 Isolated



| LED Type | State | Description |
|----------------|-------|---|
| External Power | ON | Power is present. HUB will supply 500 mA per downstream port. |
| | OFF | No power is present. |
| Port LEDs | ON | Port is Active and ready for use. |
| | OFF | Port has a Fault. Power may need to be cycled. |