



12-Port USB 2.0 Powered Hub for PC-MAC with DIN RAIL Mount – Installation Guide

1. Introduction: USBG-12U2ML

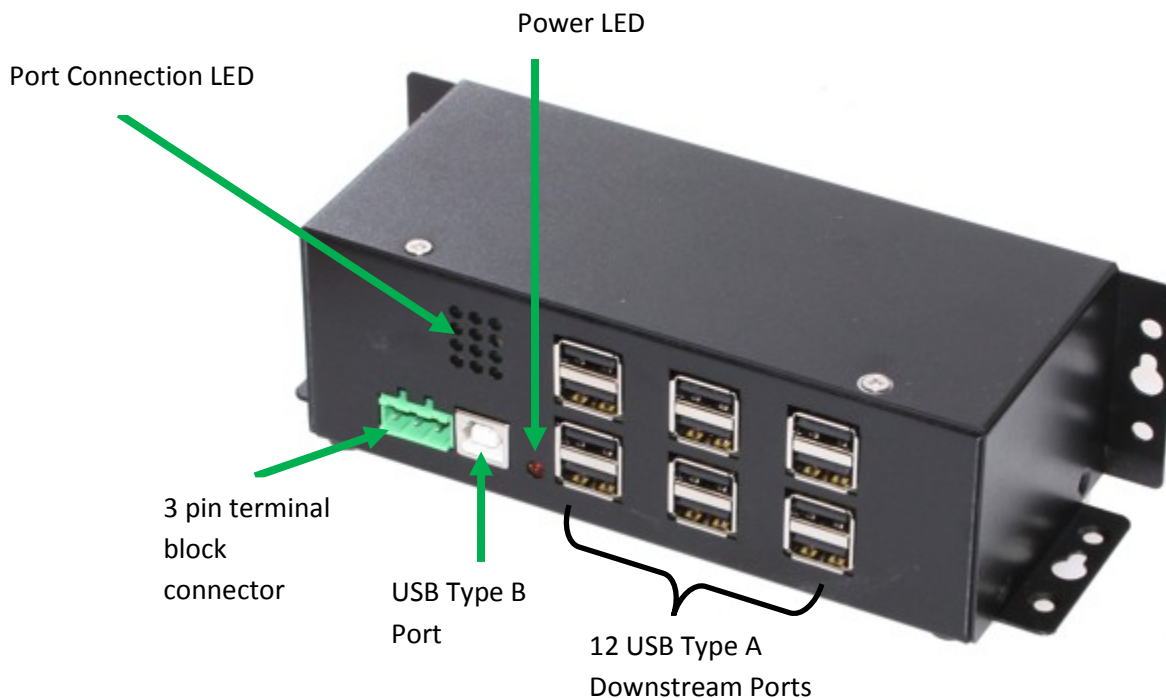
The High-Speed 12-port USB 2.0 hub provides an ideal solution to expand 12 USB 2.0 ports from one single USB 2.0 host port. It provides a three wire terminal block connector (+7 ~24V) requiring an AC Adapter.

FEATURES:

- Compliant with USB Specification Revision 2.0
- Rigid and Wall-mountable Metal Case
- Supports High-speed and or Full-speed Packet
- Built-in Multi-TT Chip USB 2.0 Hub Controller
- Protocol Sequencer for Endpoint 0/1
- Multi Transaction Translator (per hub 12 concurrent non-periodic transactions)
- Provides 12 Downstream Facing Ports
- Supports 480Mbps, 12Mbps and 1.5Mbps Speed
- Supports Self-powered Mode



2. Connector Layout



- **+7~24V 3-pin Terminal Block Power Connector:** A 3-Pin Terminal Block Connector supplies power for the use of this product. The AC adapter's output has to be connected to here.
- **USB 2.0 Upstream Connector:** Type-B connector from upstream USB 2.0 port. It is connected from host or another USB 2.0 hub.
- **AC Power Adapter:** This adapter is required for supplying 110/220 AC power from a wall plug to the hub,



3. Hardware Installation

1. **Use static electricity discharge precautions.** Remove possible static discharge potential from any objects that the hub may come in contact with before installation. This can be accomplished by touching a bare metal chassis rail after you have turned off the power.
2. **Attach the AC power adapter.**
3. **Connecting USB Host cable:** The host cable is a standard A-to-B USB 2.0 cable. Please connect the type-A end connector of the cable to your upstream USB port, then connect the type-B end connector to this hub. Since the USB hub is plug-and-play, you don't have to turn off your host computer when installing the hub.

Note:

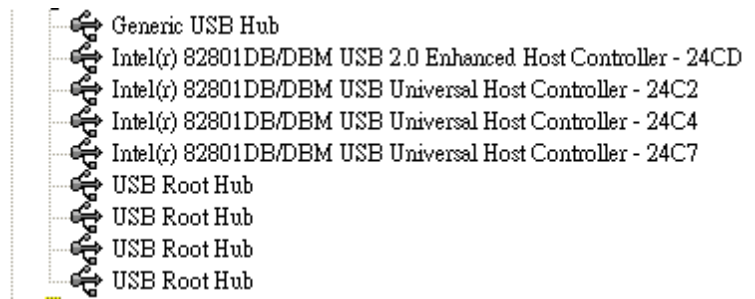
In some cases, you will see an error message said that the USB Hub caused the USB bus power over the current limit, please ignore this message since the hub is hot plug and its power capacitor will cause a very short period of current. It will NOT affect your USB function.

4. **Connect the USB devices to the downstream ports of this hub.**
5. **Mount your hub on the wall or DIN RAIL if required.**

4. Checking the Hub Installation

To check the USB hub installation in Windows device manager, please follow the following steps:

1. Click **Start**
2. Click **Control Panel**
3. Click **System**
4. Click **Device Manager** button
5. Double click **Universal Serial Bus Controller**
6. Double click **Generic USB Hub**, the message will show that this device is working properly.



5. Environmental Specifications

Operating Temperature:	0 to 55°C (32 to 131°F)
Storage Temperature:	-20°C to 85°C (-4 to 185°F)
Operating Humidity:	5 to 95% RH
Dimensions (LxWxH):	(6.125" L x 2.59" W x 2.0" H) (155.57mm x 65.79mm x 50.8mm)

