USB 2.0 Over IP Network Industrial 4-Port Hub – TCP/IP Network

Product Manual

Coolgear, Inc.
Version 1.1
September 2017
Model Number: USBG-4NET

Revision History

Revision	Date	Author	Comments
1.0	3/20/2017	Coolgear	Original format
1.1	10/11/2017	Coolgear	New Manual Format

About this document

This product manual outlines installation and features of the USBG-4NET USB 2.0 Over IP Network Industrial 4-Port Hub – TCP/IP Network.

Scope

The scope of this manual is to give the user of the product an understanding of its use with detailed diagrams and verbiage. The manual allows the users to apply the product to their application.

Intended Audience

This product is intended for use in numerous industries including but not limited to applications such as; Automotive, Machine Equipment, Kiosk, Office, and others.

Product Support

support@coolgear.com

Table of Contents

Table of Figures

1. Introduction

This 4-Port USB 2.0 USB Server, (hereinafter referred to as ("**The USB Server**"), provides an ideal solution to use USB devices over Internet instantly. With its Client Software, the network users can use the remote USB devices over a local network or the Internet as if they were connected directly to your local PC. The USB Server supports High speed USB devices such as printers, scanners, digital cameras and USB Flash drives over the network. It is ideal for home office, small office or industrial applications that access the USB devices remotely.

WEIGHT	.65 lbs
DIMENSIONS	6.008"(L) x 2.37"(W) x 1.028"(H) (7.014"(L) with ears)
UPC	729440625078
WARRANTY	1 year from date of purchase
COLOR	Black
DOWNSTREAM PORTS	4 USB 2.0 Type-A Ports
UPSTREAM PORTS	1 USB 2.0 Type-B Port

1.1 Features

- Fully Compatible with USB 2.0/1.1/1.0 peripherals
- Provides 4 USB 2.0 Host Ports over Ethernet or IP
- Allows Working With Remote USB Devices as with local ones
- Multiple USB Devices Can Be Shared on Server
- Supports USB Devices Safe Removal function
- Auto Sharing of New USB Devices
- User-Friendly Web and PC GUI Interface
- Works in USB Hub Mode or Ethernet Mode
- USB Devices Can Be Switched to USB or Ethernet Host
- Metal Case and USB Screw Lock Mechanism enhances the Reliability
- IEEE 802.3 10/100/1000Mbps, Auto Cross-over Ethernet Port
- Compatible with Bulk, Interrupt and Isochronous Type USB Devices
- DC Jack for DC 7~24V Power Input
- Supports USB Bus Power

1.2 Connector Layout

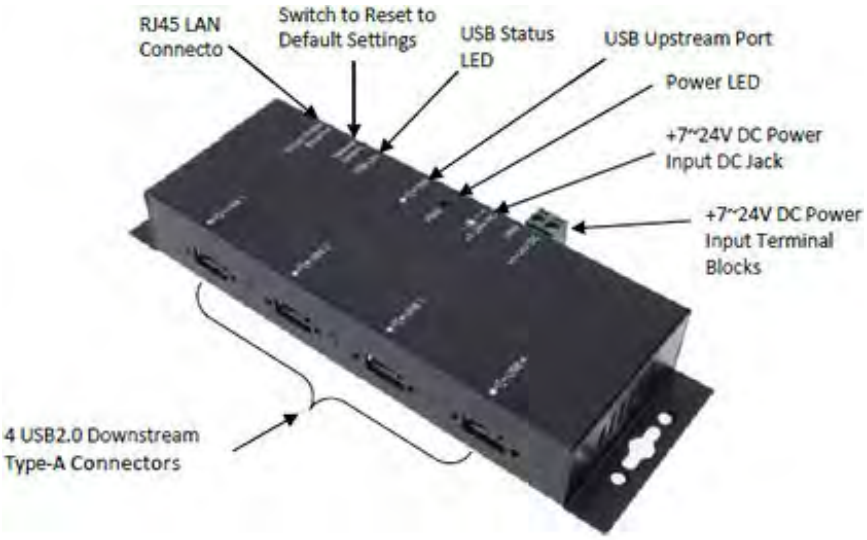

Figure 1

USB Link LED: Indicates the USB devices are linked to Ethernet port and are been accessing.

Power LED: Lights when DC power is on.

LAN LED Indicators: There are 2 LEDs on the RJ45 connector; they are described as the following table:

LED Name	Color	LED Function
Link	Green	**Steady on**: The Connection on the Ethernet port is built and Active **Off**: Ethernet Port Disconnected
Act	Yellow	**Blinking:** Transferring Ethernet Data **Off:** No Data Transferring on Ethernet

DC Jack and Terminal	RJ45 Ethernet Connector	USB B Upstream Port
It A 7V~24V DC Power is required for this product. Power is supplied from either the DC Jack or the Terminal Blocks, but not both at the same time.	10/100/1000Mbps Ethernet port. It supports auto cross-over feature. You can use the same cable to connect to either a Hub/Switch or a host computer.	If connect it to the PC's USB host port, the USB server will be switched immediately to work as a simple USB hub, however, the Ethernet port is not able to access the USB devices any more. In this case, please make sure the Ethernet is not accessing the USB devices (the USB devices are in the free device state), otherwise, the USB devices may not function properly.

1.3 Hardware Installation

1. **Use static electricity discharge precautions**. Remove possible static discharge potential from any objects that the Adapter 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 DC power source**. There are 2 connectors can be added the power to the unit. One is the DC Jack (by the AC /DC Adapter) and the other is the 2-pin terminal blocks.
3. **Connecting LAN cable:** Use a standard straight-through Ethernet cable to connect to a Hub or Switch. If you connect the USB Server to your computer's Ethernet port instead, you don't need to change to a cross-over type cable since the Adapter provides auto cross-over feature.
4. **Connect the USB Server's SUB ports to your USB devices.**

1.4 Typical Connection Diagram

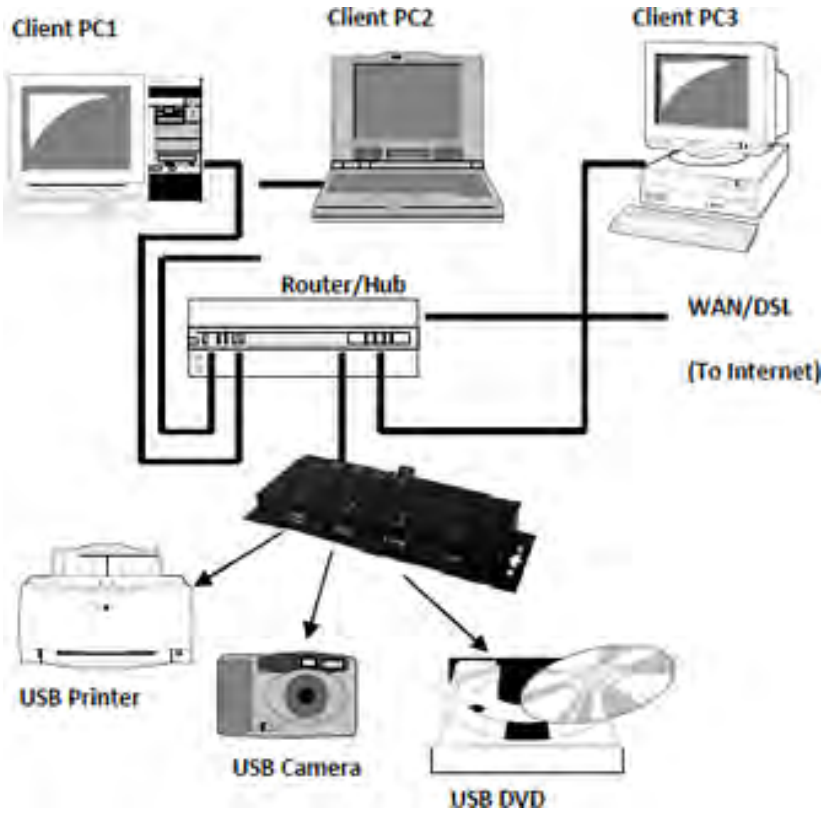

Figure 2

2. Software Installation

The USB Server comes with user friendly client software which maps USB devices connected to the USB server onto the local host machine. To access the USB devices on the USB Server, each Client PC should install this GUI utility. We call it **USB Server Program**.

This GUI Utility provides Device Mapping functionality for a user to connect and disconnect various devices found on the network. It also includes a USB Server Manager that lists and provides option to configure various setting on the USB server remotely.

The Utility was shipped in an Install Shield in the following folder on the driver CD:

Figure 3

To Install the Install Shield, please go to the above folder, double click the Install.exe program in the folder, follow the instruction of the installer to complete the installation.

As soon as the utility is installed, to launch the USB Server Program, please double click its shortcut icon on the desktop, after running it once, the application will be placed in the system tray as shown in the figure below. Double click the icon on the system tray to view and run the Utility on your client PC.

Figure 4

3. Environmental Specifications

Specification	Data
Operating Temperature:	0-55°C (32 to 131°F)
Operating Humidity:	5 to 95% RH
Storage Temperature:	-20° to 85°C (-4° to 185°F)

4. Notes, Tips, Warnings, and Safety

Note	For the more detail about how to use this USB Server Program, please refer to the PDF manual file in the same folder on the driver CD.

Tip	N/A

Warning	N/A

Safety	• Read the entire Product Manual before implementing this product for your application. This manual contains important information about electrical connections that must be followed for safe and proper operation. • Inspect the product closely for visual defects before putting it to use. • Keep away from areas where moisture builds, this product contains electrical components that can be damaged by moisture build up, this can adversely affect your equipment connected to it. • Do not disassemble the product. Handling the product's internal components can expose it to ESD (Electro-Static Discharge) hazards that can affect the function of the device. • If this product is not functioning properly, email our support team at support@coolgear.com.

5. Supporting References

Document	Link
Website Product Page	https://www.coolgear.com/product/usb-2-0-over-ip-network-4-port-hub-share-any-usb-device-over-tcpip-network