

## USB Serial over IP Adapter Quick Installation Guide

### 1. Product Overview

Congratulations on your purchase of AnyplaceUSB USB Serial over IP Adapter! This USB to RS-232 serial converter provides the capability of serial devices networking and sharing across any network including Ethernet, WAN, VLAN, VPN and the Internet. The serial devices connected to this adapter can be shared and accessed over Ethernet by multiple remote client computers from different locations.

This Serial over IP Adapter adds to a USB port on a network computer 1, 2, 4 or 8 RS-232 serial ports, where the port counts are depending on the different models. The adapter performs as a high speed USB serial port at 921.6K bps, and once you enable AnyplaceUSB software app, it can virtualize the serial ports over network to remote client computers. It easily adds non-network ready serial devices to a network for sharing over Ethernet via the connected network host PC.

### 2. Package Contents

The package contains the following items:

1. USB Serial over IP Adapter
2. One USB cable
3. Windows/Linux User Manual and Software CD
4. This Quick Installation Guide

### 3. System Requirements

To connect, install and share your AnyplaceUSB Adapter, you will need the following capabilities on your host computer:

1. Windows operating system Windows 10, 8.1, 8, 7 Vista, XP, ME, 2000; Windows Server 2016, 2012, 2008
2. A free USB port
3. Host computer with network access
4. Internet connection if sharing over internet
5. Linux kernel version 3.0.0 or above for Linux computers

### 4. Get Started

This guide helps you to install the hardware and software of the AnyplaceUSB-xCOM on your local PC (named Server) and on remote computers (named Client) for sharing and connecting serial devices.

1. Hardware installation and connection of the USB Serial over IP Adapter to your local computer (Server)
2. Installing the AnyplaceUSB software on your local PC
3. Sharing USB serial port on your local computer
4. Installing the AnyplaceUSB software on the remote client computer (Client)
5. Connecting to a shared serial device from the Client
6. How to share and access serial device over the Internet

### 4. Connecting the USB Serial over IP Adapter to your PC

**Step 1:** Connect the USB cable to the USB type B connector on AnyplaceUSB-xCOM adapter

**Step 2:** Connect the other end of the cable to a free USB port on your PC. You can connect the cable to a USB 2.0 port or a USB 3.0 port. This hub is fully compatible with USB 2.0 port and works with USB 3.0 port.

**Step 3:** You need to install the USB COM port driver first to make the USB COM port functional. .

If your Windows operating system is one of Windows 10, 8.1, 8, 7, Windows Server 2016, 2012 or 2008 R2:

Connect your computer to the Internet. The USB to serial port driver will be installed automatically. You do not need to install the COM port driver specially.

If your Windows operating system is one of Windows XP, Vista, Windows Server 2008 or 2003:

Connect your computer to the Internet. When asked to install the drivers, you then allow your PC to search the Internet to load and install the drivers from Windows Update website.

If you cannot connect to the Internet when installing the drivers: you can run the setup program (CDMvX.XX.XX\_Setup.exe) in the driver CD. You need to pre-install the Windows driver, prior to plugging the AnyplaceUSB-xCOM adapter to the USB port on your computer.

### 5. Installing the AnyplaceUSB Software on your local PC (Server)

To be able to share or access a serial device, plugged to your USB Serial over IP Adapter, in your local network or over the Internet, you need to install and configure the AnyplaceUSB software on both computers.

1. The **Server** computer that the adapter is connected, and serial devices are attached to the adapter physically.
2. The **Client** computer that is going to connect to the serial devices remotely over Ethernet.

**Step 1:** Insert the software CD into your CD-ROM drive.

**Step 2:** Open Setup program files in the CD, and double click "AnyplaceUSB\_setup" to install AnyplaceUSB software app.

**Step 3:** When the confirmation for "User Account Control" appears, click "Yes" and the "Setup – AnyplaceUSB" message appears. Click "Next" to proceed with the installation.

**Step 4:** After you click "Next", you will see the information of "Setup will create the program's shortcuts in the following Start Menu folder". Click on "Next" and the "Ready to Install" message appears. Click "Install" to proceed.

**Step 5:** When the message "Completing the AnyplaceUSB Setup Wizard" appears, click "Finish" to restart the computer.

### 6. Sharing a Serial Device on the Server

To share a serial device on the Server side, your PC must be connected to a network. The first time you start the program, Windows will prompt you for firewall access.

**Step 1:** Double click the shortcut icon of "AnyplaceUSB" to launch the program. When "Windows Security Alert" shows "Windows Firewall has blocked some features of this app", unblock the software and select "Allow access" to grant it access.

**Step 2:** The main window consists of two toolbars: "**SERVER**" and "**CLIENT**". Select "**SERVER**" tab, you will see below it a "USB SERIAL HUB" displayed and listed on the left side of the main window.

**Step 3:** Click on this "USB SERIAL HUB", a tree view on the

right side of the main window will display a list of icons showing the USB serial over IP adapters searched and found.

**Step 4:** Click the icon of any “USB Serial Adapter” displayed, the “Share” button will become available. Click the “Share” button, the “Share Device” control panel will pop up.

**Step 5:** For a simple and fast sharing, you can share the serial device automatically. Under “Share Device” panel, just go to the bottom directly and click “Share” button. (You can disregard the entry of TCP Port number under “Network options”. Leave it as it is, and the AnyplaceUSB software will set it automatically.)

**Step 6:** You will see the “Share success!” message. Click “O.K.” and the AnyplaceUSB software will be restarted to finish the USB serial over IP port sharing setup.

Click on the “USB SERIAL HUB” again to display all the USB serial adapters connected. You will see the shared “USB Serial Adapter” icon is changed, and the words “Shared” and its TCP port number are appended to the name of the USB device (e.g. /Shared-49666).

## 7. Installing the AnyplaceUSB Software on Remote Computer (Client)

To be able to connect to a shared serial adapter and use it, you need to install and configure the AnyplaceUSB software on the client computers. You can install this software app on as many client computers as you need. Any of the client computers that can be in different places or countries can access over network to the shared serial ports attached to the USB serial adapter.

The installation steps are exactly the same as that of “Installing AnyplaceUSB software on your local PC (Server).” Please refer to the 5 steps above.

## 8. Connecting to a Shared USB Device from the Remote Computer (Client)

To connect to a shared serial adapter on the Server, the client computer must be connected to a network. The first time you start the program, Windows will prompt you for firewall access.

**Step 1:** Double click the shortcut icon of “AnyplaceUSB” to launch the program. When “Windows Security Alert” shows “Windows Firewall has blocked some features of this app”, unblock the software and select “Allow access” to grant it

access.

**Step 2:** The main window consists of two toolbars: “SERVER” and “CLIENT”. This time select “CLIENT” tab. You will see remote server computers with their IP addresses displayed on the left of the main window.

**Step 3:** Click on the remote server computer. The remote shared USB serial adapters will be detected, and the list of USB serial adapter icons will be displayed on the right side of the main window. Select and click on the shared USB serial adapter, the “Remove”, “Status”, “Connect” buttons become available.

**Step 4:** Click the “Connect” button to connect to the remote shared USB serial adapter. The “Connect success!” message appears to confirm successful connection. On the left side of the main panel, a new icon of “Remote Device” appears. Click on this “Remote Device” icon, you will find a duplicated remote shared USB serial adapter. The computer will install the device drivers for this remote shared USB serial adapter automatically. (However, you may need to install the USB serial device driver manually to the client PC, if the Windows OS does not install it automatically.)

Click on the remote shared USB serial adapter icon again, you will see the USB serial adapter is connected to the client PC. The “Disconnect” button is available now for disconnection.

## 9. Sharing and Accessing USB Devices over the Internet

One of the many nice features, provided by your AnyplaceUSB USB Serial over IP Adapter, is that you can share serial devices over the Internet and allow you to access, configure, monitor and control the distant shared serial devices from anyplace in the world when connected to the Internet.

### How to Share Serial Devices over the Internet (Server)

**Step 1:** You need to share the desired serial device on the local network first. Click on the shared USB serial adapter to check its TCP port number. For example, the shared USB serial adapt may show “TITAN USB UART/Shared-49666”. In this case, the number “49666” would be its TCP port number.

**Step 2:** Check the IP address of the local PC (Server) by typing the “ipconfig” command under command prompt. You can find its IP address under the section “IPv4 Address”.

**Step 3:** Create “port forwarding” entries, under NAT/QoS in our example, in your router and enter the (1) IP address and (2) TCP port number found in the Step 1 and 2. Find the router’s IP address on its setting screen and record the IP address of the WAN IP. Apply and save the setting to exit.

### How to connect shared Serial Devices over the Internet (Client)

**Step 1:** Under the “Client” tab, click “Add Device” and the “Manually add shared device” panel appears. Enter the router’s “IP address” and the “TCP port number” of the shared USB serial adapter.

**Step 2:** Under “Remote Device” on the left panel, an “Unknown” device icon is added. Click “Connect” tab and the “Connect success!” message appears to confirm successful connection. The icon now will change to a remote USB device with “device description”, and the “Disconnect” button becomes available.

**Step 3:** The client computer will install drivers for this remote shared serial adapter automatically. (However, you may need to install the USB serial device driver manually to the client PC, if the Windows OS does not install it automatically.)

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