

# **ENNUS2** USB-OVER-NETWORK SERVER

**User Manual** 

### **Table of Contents**

CHAPT	<b>FER 1:</b>	INTRODUCTION	2
CHAPT	<b>TER 2:</b>	PRODUCT OVERVIEW	3
2.1	Package	Contents	
2.2	Setup Dis	se CD	
2.2.1	Start-up	Procedures	
2.3	Physical	Description	
2.4	Supporte	d USB Devices4	
СНАРТ	FER 3:	BASIC INSTALLATION	4
3.1	Connecti	ng the Hardware4	
3.2	Assigning	g an IP Address to the ENNUS2 Server5	
3.2.1	Prelimine	<i>ary</i>	
3.2.2	IP Addre	ss5	
3.2.3	Methods	for Setting the IP Address5	
3.2.4	Server N	ames and Server Name Rules5	
3.2.5	Setting th	e IP Address5	
СНАРТ	Γ <b>ER 4:</b>	USING THE ENNUS2 SERVER	8
4.1	Introduct	<i>ion</i>	
4.2	Connect	& Disconnect	
4.3	Subnet Is	sue8	
4.4	Installati	on of USB Device Driver9	
4.5	Using the	2 ENNUS2 Server	
4.6	Auto-Cor	nnect Printer	
4.7	Network	Scanner14	
4.8	USB Stor	age16	
4.9	Request t	o Connect	
4.10	Limitatio	ns17	
5.1	Installing	Control Center	
5.2	Using the	e Control Center	
5.3	Quitting	the Control Center	
CHAPI	TER 6: 1	THE ENNUS2 SERVER'S WEB PAGES	20
6.1	Introduct	ion20	
6.2	Using the	e ENNUS2 Server's Web Pages20	
6.2.1	Displayir	ng ENNUS2 Server Status20	
6.2.2	Setting u	p ENNUS2 Server Configuration21	
СНАРТ	re <b>r 7:</b> 1	ROUBLESHOOTING	
7.1	LED Indi	cators	
7.2	Firewall.		
CHAPT	FER 8:	RESTORE FACTORY DEFAULTS	24
8.1	Using the	e ENNUS2 Server's Web Pages	
8.2	Using In	t Button	
8.3	Default H	Parameters List	
CHAPT	<b>FER 9:</b>	UPGRADE FIRMWARE	26
СНАРТ	<b>FER 10:</b>	THE INIT BUTTON	27

# Chapter 1: Introduction

Thank you for supporting Encore Electronics ENNUS2 USB-OVER-NETWORK SERVER (referred as "ENNUS2 Server" in this manual). ENNUS2 Server is designed to share and connect directly to the network as it is one of the independent network devices then share your USB devices such as the AIO/MFPs (All-In-One/Multifunction Printer), USB printers, USB mass storage (external hard drives, flash drives, and memory card readers, scanners, USB TV tuners, USB Media Players, USB speakers, USB 1.1 digital cameras, Apple's iPhone, iPod Touch and iPad and many more, allowing network user access any USB device connected to the ENNUS2 Server one at a time.

This manual provides introductory information as well as detailed instructions on how to set up and manage the ENNUS2 server in various network environments. To fully benefit from this document, you should be familiar with basic networking principles. Should you require any technical assistance, please contact your product reseller. Or you can visit our website at <a href="http://www.encore-usa.com">http://www.encore-usa.com</a> for latest product information. This document is subject to changes without prior notice.

# Chapter 2: Product Overview

#### 2.1 Package Contents

Verify that nothing is missing from the package by using the checking list below. Please contact your retailer if any item is missing or damaged. All packing materials are recyclable. Please confirm the items in the package below:

- The ENNUS2 USB-OVER-NETWORK SERVER
- Quick Installation Guide
- CD Setup Disc
- Power Adaptor

#### 2.2 Setup Disc CD

This CD provides easy-to-use Control Center software, Adobe Reader web link for free download, User's Manual and Quick Installation Guide.

#### 2.2.1 Start-up Procedures

If your computer is configured to auto start CDs, this CD will start automatically when inserted. You can also navigate to the CD and start the autorun.exe file from within the Windows file manager.

#### 2.3 Physical Description

- 1. **Power Adaptor Connector:** for DC 12V/1A power adaptor
- 2. **Init Button**: for restoring the parameters to the default values
- 3. Ethernet Connector: for twisted pair category 5 cable
- 4. **USB Host Port:** USB 1.1/2.0 low, full, and Hi-Speed compliant
- 5. Power Switch: Turns the power On or Off
- 6. Indicators
  - *Power Indicator* is lit when powered on. If it is not lit, or if it blinks, there is a problem with the ENNUS2 Server or power adapter.
  - *Link Status* is lit when network cable is plugged in. If it is not lit, it indicates that the ENNUS2 server is not connected to the network.
  - Status Indicator blinks to indicate network activity.
  - USB Indicator is lit while a USB device connects to the USB Port of ENNUS2 Server. If it is not lit, or if it blinks, there is a problem with the USB device or the ENNUS2 Server.
  - ACT: Indicates data activity when flashing

#### 2.4 Supported USB Devices

The ENNUS2 server supports the following types of USB devices. Some USB devices listed requires you to install their driver or software before they operate fully.

- USB Printers
- USB Multi Function Printer device(MFP/AIO)
- USB Scanners
- USB Storage Devices (ie: USB external HD, flash drive, digital cameras)
- USB Speakers
- USB Digital TV Tuners
- External CD/DVD Drives
- iPhone, iPod touch and iPad

## Chapter 3: Basic Installation

#### **3.1 Connecting the Hardware**

- 1. Make sure that your USB devices are switched off and that the ENNUS2 Server's power adapter is turned off or disconnected.
- 2. Connect the USB device to the USB port.

NOTE: To hook up more than one USB devices, a USB hub is needed like the Encore's ENU4-USB Four port USB Hub. Hook up the USB hub to the ENNUS2 USB port and connect your USB devices to the USB hub.

- 3. Connect the ENNUS2 Server to the network with a twisted-pair category 5 cable, 10baseT or 100baseTX with RJ-45 connector usually called a network cable.
- 4. Turn on the USB devices and make sure they are ready for use.
- 5. Make sure the power switch is in OFF position then connect the power adapter to the ENNUS2. Turn the power ON, the power indicator will light up and the USB indicator will flash. When the Link indicator lights up, the ENNUS2 Server is correctly connected to the network. The USB indicator stops flashing when the ENNUS2 Server begins its normal operation.

# Please note, that if a USB device is connected to the ENNUS2 Server and the LAN cable is unplugged, the USB LED will not turn on.

### 3.2 Assigning an IP Address to the ENNUS2 Server

#### 3.2.1 Preliminary

- If you have a DHCP server on your network, your ENNUS2 Server will receive an IP address automatically. The IP address will then appear in the Control Center or on the web page of configuration. If your DHCP server does not give an IP address to the ENNUS2 Server, the ENNUS2 Server will use the Factory IP address: 192.168.1.100.
- If you are not working in a DHCP network, you need to manually set the ENNUS2 Server's IP address.

#### 3.2.2 IP Address

Unless you are assigning an IP address using DHCP, you must obtain an unused IP address from your network administrator.

#### 3.2.3 Methods for Setting the IP Address

You can set the IP address of your ENNUS2 Server using one of the following methods, depending on your network operating environment:

- Automatic IP Address Assignment
- Manual IP Address Assignment

#### 3.2.4 Server Names and Server Name Rules

The default server name of the Server is "ENNUS2". If you have multiple Servers in your local area network, to avoid using the same server names you have to change the server names by using the Control Center. If your server name is longer than 15 characters, the Server uses only the first 15 characters.

#### **3.2.5 Setting the IP Address**

- 1. Install the Control Center. The Control Center is available on the Product CD.
- 2. Start the Control Center and Auto-searching Server window will appear.

Encore	ENNUS2 USB-OVER-NETWORK SERVER	Control Center     Image Burner
		🔁 Quick Install Guide
		搅 User Manual

3. If the tool finds multiple USB Servers in your local area network, then you have to select one Server from the Server List.

B	A.				*	
Configure Server	Auto Auto-Connect Printer	Connect	<b>T</b> Disconnect	Request to Connect	Network Scanner	

4. Double click the highlighted ENNUS2 server to enter the main web page.

	USB-OVER-NETWORK SERVER
HOME   STATUS   CONFIG	
Click STATUS to show y     Click CONFIG to adjust     Visit our website at www.encore	our system status. each setting of the server. -usa.com for more information.
© 2	2008 Encore Electronics, Inc. All rights reserved

5. Click the "CONFIG" button and enter the ENNUS2 Server's administrator (default: admin) and password (default: admin).

Login	
Administrator	admin
Password	•••••
Login	Cancel

6. After you login successfully, the "general setting" web page appears.

	5	USB-OVER-NETWORK SERVER
HOME   STATUS   CON	FIG	
General	ministrator Maintenance	
Server Information	ministrator   maintenance	
Server Name	ENNUS2	15 letters[max.]
TCP/IP		
Automatically get IP by	DHCP	
🔲 Manual DNS		
O Static IP		
IP Address	192.168.1.100	
Subnet Mask	255.255.255.0	
Default Gateway		
DNS Server		
	Submit Rese	et

- 7. Click the button corresponding to your choice of IP setting method (static or dynamic using DHCP). When assigning a static IP address you also have to define Subnet Mask and Default Gateway. If you choose Automatically get IP by DHCP, you can use desired DNS by clicking the Manual DNS button and manually assigning a DNS.
- 8. Click Submit to save your settings. And the ENNUS2 Server will reboot.
- 9. You have now finished configuring the IP address.

# Chapter 4: Using the ENNUS2 Server

### 4.1 Introduction

The goal of this product is to provide network connectivity to USB devices from a single server. A new technology, "NetUSB", has been developed to achieve this goal. "NetUSB" is a "USB over IP" technology that transparently redirects all USB packets to a TCP/IP network channel. "NetUSB" allows you to use remote USB devices as if they are connected directly to your PC.

### 4.2 Connect & Disconnect

"NetUSB" allows you to use remote USB devices as if they are connected directly to your PC. The "connect" operation is a software operation that simulates an actual USB device plug-in. That is to say, when you do a "connect" operation in the Control Center, PC can then detect a USB device's plug-in, although actually you do not plug in any USB device. Similarly, the "disconnect" operation is a software operation that simulates the disconnection of the USB device. Once the connect operation is successful, the operations to use that USB device are just the same as if the USB device is directly connected to the PC.

If a USB device is "connected" by a PC, we say that PC has the ownership of the USB device. Only one PC can get the ownership of a USB device at the same time. Therefore, if a USB device is connected by one PC, no other PC can connect this USB device until this USB device is disconnected.

#### 4.3 Subnet Issue

Before using the NetUSB technology, you must first make sure that your PC can access ENNUS2 server via TCP/IP. The simplest way to do this is using "Control Center" to search for ENNUS2 server on the network and change its IP address to be the same subnet as your PC. If the ENNUS2 server and your PC are not in the same TCP/IP subnet, Control Center will show the ENNUS2 server in green, as in the following figure.



You must change the IP address (or using DHCP) of the ENNUS2 server so that the ENNUS2 server and your PC are in the same subnet. To do this, please double-click on the ENNUS2 server, and the following window will appear. Change the IP setting to make ENNUS2 server and your PC within the same subnet. After automatic reboot, Control Center will show the ENNUS2 server in blue, meaning you can access these servers by the NetUSB technology.

Sennus 2 USB-OVER-NETWORK	SERVER Control Center	
General Configuration		1
Server Information		
Network PCs use the follow	wing information to identify the server	
Server Name ENNU	15 letters [max]	
Set TCP/IP Configuration Current IP : 192.168.3.10 O Automatically get IP by O Static IP IP Address	0 DHCP 192_168_3_100	
Subnet Mask	255,255,255,0	
	Reset Apply	

#### 4.4 Installation of USB Device Driver

Some USB devices, like printers or MFPs (multifunction printers), require installing vendor-supplied driver (usually on vendor's CDROM). For those USB devices that do not require drivers, please skip this section.

- A. Insert vendor's CDROM into the CD drive and run the "autorun" program.
- B. Follow the instructions of the installation program to install driver.
- C. When the installation program asks you to plug-in the USB device, run the "Control Center".
- D. In the Control Center, click the ENNUS2 server that has the desired USB device attached.
- E. Click the desired USB device as in the following figure.



F. Click the "Connect" button. Then the message "Manually Connect by your\_computer\_name" will appear, as in the following figure.

em Tools About					
Configure Auto-Connect Server Printer	Connect	Nisconnect	Request to Connect	Network Scanner	
ENNUS2 - 192.168.1.38					
MFP · HP · Deskjet F30	) series [ Manually	Connected by HAP	RYLAPTOP]		

- G. Now, the installation program will detect the USB device and continue to install the driver.
- H. After the installation is complete, click the USB device in the Control Center and then click the "Disconnect" button to disconnect the USB device.

Now the driver of your USB device is installed.

### 4.5 Using the ENNUS2 Server

- A. In the Control Center, click the ENNUS2 server that has the desired USB device attached.
- B. Click the desired USB device.



C. Click the "Connect" button. Then the message "Manually Connect by *your\_computer\_name*" will appear.



- D. Now, the PC will detect the newly connected USB device. The "connect" operation is a software operation that simulates an actual USB device plug-in. That is to say, when you do a "connect" operation in the Control Center, the PC will assume a USB device is newly connected, although actually you do not physically plug in any USB device.
- E. Use the USB device as if it is connected directly to your PC's USB port.
- F. After you finish using the USB device, click the USB device in the Control Center and then click the "Disconnect" button to disconnect the USB device. Other PCs cannot "Connect" the USB device until you "Disconnect" that USB device. That is to say, no two PCs are allowed to connect the same USB device at the same time.



### 4.6 Auto-Connect Printer

The method described in section 4.5 is called "manual connect", which means users must manually connect and disconnect the USB device before and after using that device, otherwise nobody else can connect that device. However, for printers and scanners (and MFPs), the ENNUS2 server supports auto-connect so users do not need to manually connect/disconnect. This and the next sections show you how to do this.

After the driver is installed as described in section 4.4, you can see a newly created printer in the Control Panel's "Printers and Faxes". Follow the steps below to do a NetUSB auto-connect printing.

- A. In the Control Center, click the ENNUS2 server that has the desired printer (or MFP) attached.
- B. Click the desired printer (or MFP).
- C. Click the "Auto Connect Printer" button and choose "Set Auto-Connect Printer".



The following window will appear.

🧭 Add to Auto-Connect Printer List	
< Installed Printer List >	
Printer Name          Image: Printer Name         Image: Printer Nam         Image	
Apply	Cancel

- D. Choose the desired printer. The desired printer must be the Windows printer (this is a logical printer) that matches the printer attached on the ENNUS2 server (this is a physical printer). Then click the "Apply" button.
- E. Then, the printer will be marked as an "Auto-Connected Printer" in red. If you choose "Auto-Connected Printer List" in the "Tools" menu, you can see a newly created item that describes the association between the Windows printer and the physical printer on the ENNUS2 server.



Windows Printer Name
HP Deskjet F300 series

- F. Try to issue a print job to the desired printer. The Control Center will automatically do a connect operation. The print job will be issued to that printer.
- G. Even if you have properly setup an auto-connected printer, the Control Center must be running (in the background) while a print job is issued. This means you have to open the Control Center every time you start Windows. In order to skip this manual operation, you can make the Control Center open automatically after you login to Windows. Choose the "Configuration" item in the "Tools" menu. The following window will appear. Click on the check box and then on the "OK" button. This feature is enabled by default.

🤣 Control Center - Configure	×
Basic automatically execute when logging on windows	
OK Cancel Apply	

If you would like to break the association between the Windows printer and the physical printer, just click on the association and click the "Delete" button in the "Auto-Connected Printer List".

#### 4.7 Network Scanner

For NetUSB scanning, we recommend you use Network Scanner as the following steps.

- A. In the Control Center, click the ENNUS2 server that has the desired MFP (or scanner) attached.
- B. Click the desired MFP (or scanner).



C. Click the "Network Scanner" button. Then you can see that the Control Center will automatically do a "connect" operation. The following window will appear.

Welcome to the Auto-Connect Scar	nner	Ŀ
Select a device		
HP Deskiet F300 TWAIN recommended		_
WIA-HP Deskjet F300		
	OK	Cancel
		Caricer

D. Choose one of TWAIN or WIA item. Click "OK". The following window will appear.

🖉 Welcome to the Auto-Connect Scanner	
🏷 HP Deskjet F300 TWAIN	0 / 0 < 🔀
🗆 🤌 Image Name and Destination	
Select a name and destination for your pictures.	
1. Type a name for this image set :	
Picture	
2. Select a file format :	
JPG (JPEG Image)	
3. Choose a place to save this image set :	
nts and Settings\HNor\My Documents\My Pictures\ Browse Browse	
Picture Information         No. 0 Page.         Location :         Picture :         Width * Height :         Dimensions :         Resolution :         Bit Depth :         File Size :         Scan         Close	
	Scale: 📓 🏟 🔎 🏳 🖾

- E. Follow the usual steps to do scanning.F. After the scanning, close the "Auto-Connect Scanner" window. At this moment, Control Center will automatically do a disconnect.



### 4.8 USB Storage

When you connect USB storage, as in the following picture, a new disk will appear on your PC. If the USB storage is a flash drive, the new disk will be called a "removable disk".



You can see the storage icon in the system tray.



Use the new disk as a regular disk. When you are ready to disconnect the USB disk drive, click on the storage icon in the system tray and select "Safely remove USB Mass Storage Device" to remove the USB storage, as in the following figure.



Open the Control Center, click the USB storage device and click the "Disconnect" button to disconnect the USB storage device.

#### 4.9 Request to Connect

If users always use auto-connect printer and network scanner, ENNUS2 server will automatically and properly do connect and disconnect. However, if a USB device is manually connected by a user, nobody else can connect and use that device. Therefore, we offer another mechanism called "Request to Connect" to solve this inconvenience. For example, there are two computers – TEST1 and TEST2. Now the owner of "HP Photosmart 2600" is TEST1. Then, the TEST2 computer wants to use this HP printer. The user on the TEST2 computer can click the "Request to Connect" button in the Control Center. The following window appears on TEST2.



At this moment, the user on the TEST1 computer will see the following window, indicating that another computer – TEST2 is requesting to use the HP printer.



The user can choose to accept or reject. If accepted, the Control Center on TEST1 will automatically disconnect the device and the Control Center on TEST2 will automatically connect that device.

#### 4.10 Limitations

There are some limitations for using the NetUSB technology.

- A. Only supports Windows<sup>®</sup> 7 / 2000 / XP / Server 2003 / Windows Vista<sup>™</sup>. Windows 98/ME is not supported.
- B. Only one PC can get the ownership of the same USB device at the same time.

# **Chapter 5: The Control Center**

This chapter describes how to use the Control Center.

#### 5.1 Installing Control Center

- 1. Insert the included CD into the personal computer. The Autorun screen as in the following should appear.
- 2. Click Install Application button.
- 3. Click **Next** to continue through each installation step.
- 4. Click Finish.



### 5.2 Using the Control Center

You can use the following tools to help you use the ENNUS2 server:



- Configure Server: go to the server's web pages to configure the highlighted ENNUS2 server.
- Auto-Connect Printer: set auto-connect printer. Please refer to section 4.6 for details.
- *Connect*: connect a highlighted USB device.
- *Disconnect*: disconnect a highlighted USB device.
- Request to Connect: used to notify the owner of a USB device that you need the USB device. Please refer to section 4.9 for details.
- Network Scanner: actually this is auto-connect scanner. Please refer to section 4.7 for details.

Note: You can also double-click on the highlighted ENNUS2 server to get the "Configure Server" function.

### 5.3 Quitting the Control Center

The Control Center does not actually quit if you click the "X" box (close box) at the top right corner of the window. Instead, it just minimizes itself to the system tray. There are two ways to quit the Control Center. The first way is choosing "Exit" item in the "File" menu in the Control Center. The second way is right-clicking the icon of the Control Center in the system tray and choosing the "Exit" item.

# Chapter 6: The ENNUS2 Server's Web Pages

#### 6.1 Introduction

The ENNUS2 server runs the http server on TCP port: 80. Users may use the web pages to see the ENNUS2 Server's system status and configure the ENNUS2 Server.

#### 6.2 Using the ENNUS2 Server's Web Pages

#### 6.2.1 Displaying ENNUS2 Server Status

Click on the "STATUS" icon to see system status and network status.

ELECTRONICS	USB-OVER-NETWOR	RK SERVER
HOME   STATUS   CONFIG	Logout	
System Status	Network Status	_
Firmware Version : Model Name : MAC Address :	1.035 ENNUS2 00-11-E5-01-FE-20	
ELECTRONICS	USB-OVER-NETWORK S	SERVER
	USB-OVER-NETWORK S	SERVER
HOME   STATUS   CONFIG	USB-OVER-NETWORK S Logout	SERVER
HOME   STATUS   CONFIG System Status Server Name :	USB-OVER-NETWORK S Logout Network Status ENNUS2	SERVER
HOME   STATUS   CONFIG System Status Server Name : Storage Access Mode :	USB-OVER-NETWORK S Logout Network Status ENNUS2 NetUSB Mode	SERVER
HOME   STATUS   CONFIG System Status Server Name : Storage Access Mode : IP Address :	USB-OVER-NETWORK S Logout Network Status ENNUS2 NetUSB Mode 192.168.1.38 (dhcp)	SERVER
HOME   STATUS   CONFIG System Status Server Name : Storage Access Mode : IP Address : Subnet Mask :	USB-OVER-NETWORK S Logout Network Status ENNUS2 NetUSB Mode 192.168.1.38 (dhcp) 255.255.255.0	SERVER
HOME   STATUS   CONFIG System Status Server Name : Storage Access Mode : IP Address : Subnet Mask : DHCP Server :	USB-OVER-NETWORK S Logout Network Status ENNUS2 NetUSB Mode 192.168.1.38 (dhcp) 255.255.255.0 192.168.1.1	SERVER
HOME   STATUS   CONFIG System Status Server Name : Storage Access Mode : IP Address : Subnet Mask : DHCP Server : Lease Time :	USB-OVER-NETWORK S Logout Network Status ENNUS2 NetUSB Mode 192.168.1.38 (dhcp) 255.255.255.0 192.168.1.1 14400 second	SERVER

#### 6.2.2 Setting up ENNUS2 Server Configuration

To set up the ENNUS2 Server configuration, click on the "CONFIG" icon and then the system will request user to enter administrator (default: *admin*) and password (default: *admin*) to login.

- General Configuration
  - Server Information: You have to set the Server Name, which is the name to represent the ENNUS2 Server.

		RK SERVER	
OME   STATUS   CON	IFIG	Logou	t
General	Administrator Y Ma	aintenance	
Server Information			
Server Name	ENNUS2	15 letters[max.]	
Workgroup	WORKGROUP	15 letters[max.]	
Description (optional)	Encore ENNUS2 USB-Ove	48 letters[max.]	
Storage Access Mode			
O Server Mode			
NetUSB Mode     ■			
TCP/IP			
Automatically get IP by D	нср		
O Static IP			
IP Address	192.168.1.100	15 letters[max.]	
Subnet Mask	255.255.255.0	15 letters[max.]	
UPnP Setting			
LID=D	@ Fachla	ODiophia	

- **TCP/IP:** You have to set the ENNUS2 Server's TCP/IP configuration to connect TCP/IP network. Please see Chapter 3 Basic Installation for more details.
- Administrator: You can change administrator name and password. If you forget administrator name and password, you must perform Restore Factory Default action by plugging in the power adaptor while pressing the Init button. Please refer to the chapter "Restore Factory Defaults".
  - ☑ *Administrator:* enter your desired administrator name.
  - ☑ *New Password:* enter your desired password.
  - ☑ *Re-type Password:* re-confirm the password.

		USB-OVER-NETWORK SERVER
HOME   STATUS   CONFIG		
General Admir Set Administrator	iistrator Maintenance	
Administrator	admin	15 letters [max]
New Password		
Re-type Password		
	Submit Rese	t

- **Maintenance** If you want to restore factory default values of the ENNUS2 Server or upgrade new firmware, you can use the Maintenance tool.
  - ☑ **Restart:** click "Yes" button to restart (reboot) the ENNUS2 Server.
  - ☑ Factory Default: click this button, the ENNUS2 Server will restore factory default values.
  - Download New Firmware: click this button to download new firmware from this product's public website.
  - ☑ Firmware Upgrade: click Browse to find the firmware file to be upgraded. Click Upload to upload the firmware into the ENNUS2 Server. Please wait about 30 seconds for the upgrading. The ENNUS2 server will automatically reboot after the upgrading.

	USB-OVER-NETWORK SERVER
HOME   STATUS   CONFIG	
General Administrator Maintenance	
Restart	
Factory Default	
Download New Firmware	
Firmware Upgrade	

	USB-OVER-NETWORK SERVER
HOME   STATUS   CONFIG	
General Administrator Maintenance	
New Firmware File Upload Cance	Browse

# Chapter 7: Troubleshooting

This chapter provides useful information to help you resolve difficulties that you may experience with your ENNUS2 Server. Fault symptoms, possible causes, and remedial actions are provided within a quick reference table.

### 7.1 LED Indicators

Indicators	Behavior	Description
Power	On	Power On
	Off	Power off/System error
Link	On	Network connected
	Off	No physical connection to network
ACT	Blinking	Activity on network
	Off	No activity on network
USB	On	USB device connected
	Blinking	Connected USB device error
	Off	No physical connection to USB device

#### 7.2 Firewall

If firewall software has been installed on your PC, it may block the communication between the PC and the ENNUS2 server so that the ENNUS2 server cannot work properly. To solve this problem, either disable the firewall or configure the firewall to allow the following TCP and UDP ports:

7305, 7413, 20005

# **Chapter 8: Restore Factory Defaults**

You may restore the ENNUS2 Server's default parameters by one of the following methods.

### 8.1 Using the ENNUS2 Server's Web Pages

- 1. Go to the ENNUS2 Server's web page and click CONFIG
- 2. Enter administrator (default: *admin*) and password (default: *admin*).
- 3. Click Maintenance.
- 4. Click Factory Default.

	USB-OVER-NETWORK SERVER	
HOME   STATUS   CONFIG		
General Administrator Maintenance		
Load the Factory Default?		
This server will load the factory defa	ult and then restart!	
Yes	ło	

5. Click **Yes** to confirm

### 8.2 Using Init Button

Plug in the power adaptor while pressing the Init button until the USB LED blinks. After that, unplug the power adaptor and then plug in the power adapter again to restart the ENNUS2 server. The ENNUS2 server will now operate using the factory default values.

### 8.3 Default Parameters List

#### **Server Information**

• Server Name: ENNUS2

#### TCP/IP

- Automatically get IP by DHCP: Enabled - Manual DNS: None (Disabled).
- Static IP: Disabled
  - IP Address: 192.168.1.100
  - Subnet Mask: 255.255.255.0
  - Default Gateway: none
  - DNS Server: none

#### **User Accounts**

- Administrator: admin
- Password: admin

# Chapter 9: Upgrade Firmware

This chapter describes how to upgrade firmware. Please follow one of the following methods:

### Method A: Using the ENNUS2 Server's Web Pages

Please refer to section 6.2.2 for details.

#### Method B: Using the Init Button and the TFTP Client

- 1. Plug in the power adaptor while pressing the Init button until the USB LED blinks. Please note that after this step, the ENNUS2 Server will operate using the factory default values, i.e., your ENNUS2 Server's configuration will revert to factory default values.
- 2. Run the TFTP client Tool: *Image Burner*, from Windows Start menu.
- 3. Click **Open Image** to open your new firmware. Please note that you must configure your PC's TCP/IP such that PC and the ENNUS2 Server belong to the same LAN, e.g. PC's IP is 192.168.1.xxx and subnet mask is 255.255.255.0.

SUSB-OVER-NETWORK SERVER Image Burner	
Server IP Address (Factory Default) : 192.168.1.100	About
New Firmware File :	😂 Open Image
File Size : 0 bytes	🕒 Upload Image
i.e. IP is 192.168.1.xxx and NetMask is 255.255.255.0	<u> </u>

- 4. Click **Upload Image**.
- 5. Wait for **Image Uploading** to finish and then click **Close**.
- 6. Unplug the power adapter and then plug in the power adapter to restart the ENNUS2 Server.

# **Chapter 10: The Init Button**

The Init button is used for unit maintenance: Using the Init button, the ENNUS2 Server do the following tasks:

- A. Perform a reset to the factory default settings of the ENNUS2 server. Simultaneously press and hold the Init button and turn on the ENNUS2 Server, and wait until the USB LED blinks. This operation restores most of the parameters and settings to factory default values.
- B. Perform a TFTP server. You can upgrade new firmware using any TFTP client tool.

Note: After performing the tasks mentioned above, you have to power-off wait a few seconds then power-on the adaptor to restart the ENNUS2 Server.