## ADAM-6501

## Universal Web-enabled Communication Controller User's Manual

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5. Write the RMA number visibly on the outside of the package and ship it prepaid to your dealer.

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http://www.advantech.com/support

For more information about Advantech's products and sales information, please visit:

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## Chapter 1 ADAM-6501 Overview

This chapter gives background information on the ADAM-6501. It shows you the ADAM-6501 overview and specifications.

Sections include:

- Introduction
- Features
- Hardware Specifications
- Safety Precautions
- ADAM-6501 Series
- Chassis Dimensions

## Introduction

Advantech ADAM-6501 is a powerful embedded and web-enabled solution platform that connects devices data with enterprise systems. It is possible to access or even diagnose the system problem immediately through any browser. Using Microsoft Windows CE embedded features and compact flash storage, the ADAM-6501 offers a high reliability platform for industrial automation with no risk of hard disk crashes.

#### 1.1 Features

The Advantech ADAM-6501 provides users with the most requested functions as seen below:

- U Windows CE-based open embedded system
- **D** Reliable and Powerful Out-of-Box solution platform

The Advantech ADAM-6501 offers the following main features:

#### Embedded web-enabled HMI/SCADA software (Option)

HMI/SCADA software and HTTP v1.10 compliant (a persistent connection allows multiple downloads with less overhead, and also improves caching while making it easier to create virtual hosts) web server are established on ADAM-6501 and allow you to remotely view and control I/O data from anywhere on anytime.

#### Rich Legacy Controllers and OPC device connection support

With one RS-232 (RJ-48 connector), one RS-485 ports and one Ethernet and industrial standard MODBUS/RTU & MODBUS/TCP drivers, ADAM-6501 can connect versatile I/Os and control devices including Advantech ADAM-4000, 5000 and 6000 series and the other 3<sup>rd</sup> Party Controller/Device.

#### Windows® CE-based open embedded system

With no hard disk needed, the ADAM-6501 features increased reliability. More importantly, Windows® CE (Windows CE.NET 4.2) unfailingly performs time-sensitive tasks with deterministic responses to events. This is a key feature in most industrial applications.

## Reliable and Powerful Out-of-Box solution platform

ADAM-6501 provides reputed industrial hardware with XScale processor and Windows® CE-based embedded software bundled solution. This translates into long-time stability and powerful computing capability to fulfill most different applications.

#### 1.2 Hardware Specifications

CPU: XScale 400MHz RAM: 32 MB compact flash memory, 64 MB SDRAM on board Operating System : Microsoft Windows CE.NET 4.2 Storage: 1 External CompactFlash Card Slot(Support up to 512MB CF card, Wireless LAN Card) Serial Port: one RS-232 (RJ-48 connector), one RS-485 ports

- Automatic RS-485 data flow control

- Data bits: 5, 6, 7, 8
- Stop bits: 1, 1.5, 2
- Parity: none, even, odd
- RS-232 max data distance: 50 feet (15.2 meters)
- RS-485 max data distance: 4000 feet (1220 meters)

Ethernet Port: One 10/100Base-T Ethernet

LED: One power LED

Power supply voltage: 10-30 VDC, 24VDC recommended Power Requirement: 0.25A typical under +24V power input Power Consumption: 4W (typical) Operating temperature:  $0 \sim 55^{\circ}$ C ( $0 \sim 149^{\circ}$ F)

## 1.3 Safety Precautions

The following sections tell how to make each connection. In most cases, you will simply need to connect a standard cable. All of the connector pin assignments are shown in Appendix A.

## Warning!

Always completely disconnect the power cord from your PC chassis whenever you are working on it. Do not make connections while the power is on. A sudden rush of power can damage sensitive electronic components. Only experienced electronics personnel should open the PC chassis.

## **Caution!**

Always ground yourself to remove any static electric charge before touching ADAM-6501. Modern electronic devices are very sensitive to static electric charges. Use a grounding wrist strap at all times. Place all electronic components on a static-dissipative surface or in a static-shielded bag..

## 1.4 Chassis Dimensions



## **Chapter 2 Hardware Functionality**

This chapter shows how to set up the ADAM-6501's hardware functions, including connecting peripherals, switches and indicators.

Sections include:

- ADAM-6501 Peripherals
- RS-232/485 Interfaces Assignment
- LAN: Ethernet Connector
- Power Connector
- LED Indicators

## 2.1 ADAM-6501 Peripherals

The following figures show the connectors on ADAM-6501. The following sections give you detail information about function of each peripheral.



Figure 2-1: ADAM-6501 front view

## 2.2 COM1 & COM2: RS-232/485 Interfaces

The ADAM-6501 offers twp serial communication interface ports. COM 1is RS-232 ports and COM 2 is RS-485 ports, and Table 2-1 lists the setting of serial ports.

Table 2-1: Serial ports default setting		
COM Port	Default Setting	
COM1	RS-232 (Full RS-232 with RJ-48 connector)	
COM2	RS-485	

## Automatic Data Flow Control Function for RS-485

In RS-485 mode, ADAM-6501 automatically senses the direction of incoming data and switches its transmission direction accordingly. Therefore no handshaking signal (e.g. RTS signal) is necessary. This feature lets you simply and quickly build an RS-485 network with just two wires. More importantly, application software previously written for half duplex RS-232 environments can be maintained without need for modification.

## 2.3 LAN: Ethernet Connector

The ADAM-6501 is equipped with 10/100 Based-T Ethernet port. The Ethernet port provides a standard RJ-45 jack on board, and LED indicators on the front side to show its Link (Yellow LED) and Active (Green LED) status.

## 2.4 Power Connector

The ADAM-6501 comes with a Phoenix connector that carries 10~30VDC external power input. The recommended power input is 24VDC.

## 2.5 LED Indicators

There are one power LEDs on the ADAM-6501 front panel for indicating system status:

ON : Power ON

Off : Power OFF

## **Chapter 3 Initial Setup**

This chapter shows how to initial the ADAM-6501, sections include:

- Initial Procedure
- Configure ADAM-6501

## 3.1 Initial Procedure

The ADAM-6501 offers an easy setup feature: It takes four easy steps for your initial setup before use. Take out the ADAM-6501 from the package and follow the steps below for initial setup:

**Step 1:** Connect all peripheral devices, such as RJ-45 connector of Ethernet connection, RS-232 (RJ-48 connector) and RS-485 connectors.

**Step 2:** Connect the power cord to the ADAM-6501 and plug the other end of the cord into the power outlet, and then ADAM-6501 boots up immediately.

**Step 3:** The ADAM-6501 default IP is set as 10.0.0.1. Please set the IP of your host computer to be static IP : 10.0.0.XXX for connection with ADAM-6501.

**Step 4:** Using the uScope tool to re-configure the IP of ADAM-6501 to meet your network configuration. The path of uScope Remote Display Tool in ADAM-6501 CD is "\uScope Remote Display Tool\uScope.EXE ".

## 3.2 Configure ADAM-6501 : uScope Remote Display Tool

This tool works only with Ethernet connection. it's requires both of your computer and the ADAM-6501 has same Subnet Mask. The default IP address for ADAM-6501 is : 10.0.0.1 and the default Subnet mask is: 255.255.255.0. So you can set your computer IP address to 10.0.0.2 and set the Subnet mask to 255.255.255.0.



\*actually you can set any IP address that other than 10.0.0.1 from 10.0.0.1 to 10.0.0.255. If you connected you computer and ADAM-6501 to a router, don't set your computer IP address the same as the Router's.

Connect ADAM-6501 with your computer by using a cross-over Ethernet cable. Or connect both ADAM-6501 and your computer into a hub.

After ADAM-6501 boot up, it will broadcast it's IP to the network. uScope Remote Display tool running on you computer will detect the UDP message that send out by ADAM-6501 and show the device name and IP in it's

device list. You can select and connect to the device (ADAM-6501) in the list as you want.

Double Click the uScope icon in configuration computer:

🎢 uScope Remote Display			×
Last connected device	Device 26955		Reset
		Connect	ow List Exit

Click the "Show List" bottom :

evice Name	IP Addr	Avail
evice 26955	10.0.0.1	Y

Choose the connected device in the list :



After clicking "Connect" bottom, the configuration computer will connect with ADAM-6501. The remote display screen will be as following :



Please go to the "Command Prompt" for network IP setting :





User can use "ipchange" command for IP change setting in command prompt mode. Please type "ipchange /?" for command reference.



If the DHCP is choose, the "ipchange 1" will be used as set up command. If this ADAM-6501 will be set as the specific IP address, the setting command and procedure should be as following :



Press "Enter", the remote display screen will show the following message.



Wait for the "Saving Registry Done" to make sure the IP change setting work is successfully done.

Re-power on the ADAM-6501 module to re-boot the WinCE for new IP address implement.

Note : The uScope Remote Display tool is only used for the configuration work. It wasn't design to run a long time to be used as the remote monitoring tool.

## Chapter 4 : Advanced Application

- Insert CompactFlash<sup>™</sup> Card
- ActiveSync Connection
- Remote Access Service Configuration
- Autorun Configuration
- Application Development Procedure
- Save Your Setting

## 4.1 Insert CompactFlash™ Card

The procedure for installing a CompactFlash<sup>™</sup> card into the ADAM-6501 is as follows, and please follows these steps carefully.

Step 1: Remove the power connector to power off the ADAM-6501

Step 2 : Remove the CF slot cover.

**Step 3:** Plug a CompactFlash<sup>™</sup> card with user's OS and application program into a CompactFlash<sup>™</sup> card slot on board.

Step 4: Plug in the CD slot cover for protecting the CF card.

Step 5: Connector the power connector to re-power on the ADAM-6501

## Note : How to update the WinCE.NET 4.2 Image for ADAM-6501?

Please follow the above steps to plug in the CF card with image (the image file is put in the path:\Image of ADAM-6501 CD. please copy the image file from CD to CF card and please be noticed the format of the CF card must be FAT16) then wait for 5 minutes for rebooting the ADAM-6501 with new image.

## 4.2 ActiveSync connection between computer and ADAM-6501

- Using a null-modem cable connect ADAM-6501 COM1 with one of COM port on your computer
- Install Microsoft ActiveSync software on your computer and make the serial port you want connect with ADAM-6501 available for ActiveSync (see ActiveSync help for details).

Note: ADAM-6501 will use 115200 as it default BaudRate to do the ActiveSync connection. If ActiveSync program running on your computer never accept a connection at this BaudRate before, probably you'll get timeout. Since it need scan from low BaudRate to the high BaudRate , if that takes too long, ADAM-6501 will stop trying connect to your computer. So, you'd better use another CE device which has a display to connect to you Desktop through ActiveSync at 19200 BaudRate first. Thus ActieSync on your desktop PC will remember this Baud Rate, and next time when ADAM-6501 try to connect to it at this Baud Rate, it'll be connected easily.

## ActiveSync Connection

The tool is used for the application program on-line programming/debug requirement. User has to install the Microsoft ActiveSync program in configuration computer first. For the detail operating procedure of ActiveSync, please follow the steps by steps operating guide.

## Step 1 : Setup the ActiveSync in configuration computer

- 1. Insert ADAM-6501 CD into the CD-ROM in the configuration computer.
- Install ADAM-6501 Software Development Kit for eVC++ from below path: \Windows CE .NET V4.2\SDK\ADAM6501\_SDK.msi
- 3. Install Microsoft ActiveSync 3.6 from below path: \Windows CE.NET V4.2\Utility\Microsoft ActiveSync 3.6.exe

4. Please connect the ActiveSync cable (Null Modem cable, Advantech part no. : 1703093000) to COM1 of ADAM-6501 and the COM port of configuration computer for ActiveSync communication.

## Step 2 : Please connect the ADAM-6501 via uScope through Ethernet first.

## Step 3 : Configure the COM1 of ADAM-6501

Press Start of task bar of window system and select "Setting" → "Network and Dial-up connections".



A. Click the icon "Make New Connection" to make a new connection.



Select the connection type: **Direct Connection**, then press Next button.

CE Remo	te Window	
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File Edit	View       Advanced       Image: Constrained in the connection         DM9CE1       Make New Connection       Image: Connection         Type a name for the connection:       Image: Connection       Image: Connection         Image: Connection       My Connection       Image: Connection         Select the connection type:       Dial-Up Connection       Image: Connection         Image: Dial-Up Connection       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network (L2TP)       Image: Connection       Image: Connection         Image: Virtual Private Network       Im	<b>₩?</b> ×

B. Choose the COM port of ADAM-6501. In ADAM-6501, there is only COM1 supporting RS-232 for selection.

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C. Press Start  $\rightarrow$  Setting  $\rightarrow$  Control Panel, and then click "**PC Communication**" icon.

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82	°A	220	31	-	2	0	39	
Owner	Password	PC Connection	RAS Server	Regional Settings	Remove Programs	Storage Manager	System	
Start 📴	Control Panel						🔕 🕹 2:44 AM	C

D. Click Change button to choose your network communication.In this example, change the network communication to "My Connection".

📴 CE Remot	te Window							
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	Connect	using: "De	esktop @ 192	00`'		<u>C</u> hange		
ಶ Start 👂	Control Panel		PC Connect	ion Prop		1	🔕 🕹 2:45 AM	



## Step 4 : Setting the communication environment of the host

A. Double click the icon **ActiveSync**.



B. Select File→Connection Settings

😌 Microsoft ActiveSync	
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp	
<u>Sy</u> nchronize S <u>t</u> op	xplore Options
Mobile Device  Explore Delete Partnership	os 😥
<u>G</u> et Connected <u>C</u> onnection Settings	
Close minomiation rype sta	tus

C. Configure the connection settings as below.

	Connection Settings
	Click Get Connected to connect your mobile device to this computer.
	Status: Waiting for device to connect Get <u>Connected</u>
$\left( \right)$	✓ Allow serial cable or infrared connection to this COM port.
	COM1
	Status: COM port is not available
	Allow USB connection with this desktop computer.
	Status: Not Supported
(	Allow network (Ethernet) and Remote Access Service (RAS) server connection with this desktop computer.
	Status: Network is available
	Status icon
	I Show status jcon in Taskbar.
	OK Cancel Help

D. After you configure the connection setting, it will show the below dialog window when you press Get Connected

Get Connected	×		
	Get Connected		
	After installing batteries or plugging in the AC adapter, do one of the following:		
	* Use the serial cable to connect to a COM port on the back of this desktop computer and click Next.		
Y	* Use the USB cable to connect to the USB port on the back of this desktop computer. ActiveSync will automatically detect the device connection.		
	You can also connect your mobile device using infrared (IR). For more information, click Help.		
	< Back Next > Cancel Help		

NOTE: Don't click Next button at this time.

E. Press Start → Run of ADAM-6501; enter the \windows\repllog.exe in the command line of and press OK button.

🚰 CE Remote Window		
See Mar		
Computer		
Recycle Bin		
æ	Run	
Internet Explorer	Type the name of a program, folder, or	
200		
Remote Desktop		
	OK Cancel Browse	
<b>2</b> Start		🔕 🕹 3:00 AM [
CE Remote Window		
My Computer		
1		
Recycle Bin		
6	Connection to My Connection	
Internet Explorer		
2		
Remote Desktop	Cancel connection: Cancel	
Start		🔊 🕹 3:01 AM  🚱

F. Now, press the Next button in the "Get Connected" dialog in the host. It will build the connection between ADAM-6501 and host.between ADAM-6501 and host.

Get Connected	×
Checking COM Ports Please wait while Setup locates your mobile device.	Ţ.
Braner	
Looking for a mobile device Checking on COM Port 1	
< Back Next > Cance	Help

G. If the connection between ADAM-6501 and the host, you will see below message in ADAM-6501.

<u>F</u> ile ⊻iew								?	×
Ö	P		2	8	9	-	Ċ		
Certificates	Date/Time	Device Management	Dialing	Display	Input Panel	Keyboard	Mouse		
	22	<b>8</b>	July 1	4	3	2	4		
Network and Dial-up Co	Owner	Password	PC Connection	Power	RAS Server	Regional Settings	Remove Programs		
0	Con	nected to My	Connectio	n					
Storage Manager	Styli 🧕	Connect	ed						
		Hide this	; message:	H	lide				
				Disco	onnect				
ಶ Start 👟	Network Cor	nnecti 🗗	ontrol Panel			Se 🕹	ا 9:59 🕏	PM	C

- H. If the connection between ADAM-6501 and the host, you will see below message in the host.
   Select No, then press Next button.
- I.

New Partnership	×
	Set Up a Partnership
	Before you can synchronize information between your mobile device and this computer, you must set up a partnership between them.
	Would you like to set up a partnership?
	O <u>Y</u> es
	Set up a partnership so that I can synchronize information between my device and this computer.
	Hon't want to synchronize information. Set up my device as a guest so that I can copy or move information between my device and this computer.
	< <u>B</u> ack <u>N</u> ext > Cancel Help

After the New partnership setting, it will show the below dialog window in the host.

😌 Microsoft ActiveS	ync	
<u>F</u> ile ⊻iew <u>T</u> ools <u>H</u> e	elp	
Sync Stop Deta	ts Explore Options	
Guest	$\smile$	
Connected		
Information Type	Status	

J. Press Explore button in Microsoft ActiveSync window, it will pop up the **Mobile Device** window to display **the file resources and information of ADAM-6501** as below:

For example, if you click the icon "My Documents", you will see the content of storage in ADAM-6501.



Step 8 : User can begin to transfer the file from configuration computer to connected ADAM-6501.



Double click "My Computer" in "Mobile Device" for file translation.



## 4.3 Remote Access Server Configuration

## Introduction

ADAM-6501 provides "Remote Access Services" which offers the possibilities for remote network and user to have TCP/IP access local mail servers, access to database, web servers or other Intranet services. The following description introduces how to set the dial-up and dial-in configuration.

## Dial-up configuration

Step 1 : Press start of task bar of window system and select "Setting"  $\rightarrow$  "Networking and Dial-up connections".



Step 2 : Double click "Make New Connection", then a dialog window will pop out. Select Dial-Up Connection and press Next >.

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Connection	
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Step 3 : Setup the device according to the specification of the modem and press Next > 0.00

🛃 CE Remote	Window		
CE Remote     Eile Edit     Make New Connection	Window View Advan	Modem   Modem   My Connection   Select a modem:   Hayes Compatible on COM1:   Hayes Compatible on COM1:   Hayes Compatible on COM1:   TCP/IP Settings   Security Settings   < Back   Next >	₩? ×
🌮 Start	Network Connec	tions	🔕 🕹 12:37 AM 🔯

Enter the telephone number in the "Phone Number" window. Press Finish button to complete the dial-up configuration.

🕜 CE Remot	e Window		
<u>File</u> dit	<u>V</u> iew Advar	ced 🗙 📔 🖬 🖬	<b>№?</b> ×
Make New Connection	C	Phone Number       Image: Country/region code:       1         Country/region code:       1         Area code:       425         Phone number:       4125678         Force long distance       Force local	
		< <u>B</u> ack Finish	
Start 💽	Network Conne	rtions	8 - 12:38 AM

Step 4 : Press start of task bar of window system and select "Setting"  $\rightarrow$  "Networking and Dial-up connections". Double click the new connection that you made previously (it is RAS Connection in this

case), and it will pop out the "Dial-Up Connection" dialog window. Enter your user name / password, then press Dial Properties.

CE Remoi	e Window	
<u>Eile E</u> dit	View Advanced 🗙 🎴 🗔 🖂	<b>№?</b> ×
Make New Connection	My DM9CE1 Connection	
	Dial-Up Connection	
	My Connection	
	User Name: liweilee Phone: 9,4125678	
	Password: ****** Dial from: Work	
	Domain: Dial Properties	
	<u>Connect</u> Cancel	i.
🂦 Start 🔍	Network Connections	12:40 AM 📝
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CE Remot	te Window           View         Advanced         X         Image: Comparison of the second sec	×
CE Remo File Edit	te Window           View         Advanced         Image: Connection	<b> ×</b> <b>№</b> ×
CE Remot File Edit	te Window          View       Advanced       Image: Connection         My       DM9CE1         Connection       Image: Connection         Dialing Properties       Image: Connection	<b>€ ≥</b> ×
CE Remot File Edit	te Window          View Advanced       Image: Consection         My       DM9CE1         Connection       Image: Consection         Dialing Properties       Image: Consection         When dialing from:       Image: Consection	<b>€ ≥</b> ×
CE Remot	View       Advanced         View       Advanced         View       Advanced         View       My         DM9CE1         Connection         Dialing Properties         When dialing from:         Work         Local settings are:         The local grea code is:         425       Dialing Patterns	■ ■ ×
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CE Remot	View       Advanced         View       Advanced         My       DM9CE1         Onnection       ON         Very       DM9CE1         Onlaing       Properties         Very       New         Remove       New         Local settings are:       The local grea code is:         The local grea code is:       1         Dial using:       Ione         Disable call waiting by dialing:	
CE Remot	View Advanced       Image: Construction         My DM9CE1         Oraling Properties         When dialing from:       Work         Very Local settings are:         The local grea code is:         1         Dial using:         Dial using:         Diable call waiting by dialing:	■ ■ ×
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CE Remot	View Advanced       Image: Comparison of the second s	
CE Remot	te Window          View Advanced       Image: Comparison of the second secon	

Step 5 : Press Dialing Patterns button in the Dialing Properties window. Edit the dialing pattern for each type of call to change how the phone is dialed.

NOTE: Country/Region Code, please enter "E" or "e".

Area Code, please enter "F" or "f".

Number, please enter "G" or "g".

🛃 CE Remo	te Window	
<u>File E</u> dit	View Advanced 🗙 🗋 🖬 🖬	<b>№?</b> ×
Make New Connection	My DM9CE1 Connection	
	Dialing Patterns       ? (*) (*)         Edit the dialing pattern for each type of call to change how the phone is dialed.       For Local calls dial:         Local se       (*)         For Long Distance calls dial:       (*)         9,1FG       (*)         For International calls dial:       (*)         0       (*)         10       (*)         0       (*)         0       (*)         0       (*)         10	
🎝 Start	Network Connections	2:41 AM 🞯

Step 6 : Double click My Connection 2 and press Connection button to build a PPP connection.

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<u>File Edit View Adva</u>	nced 🗙 🗿 🖬 🖬 📾	<b>№?</b> ×
File     Edit     Yiew     Adva       Image: Second state     Image: Second state     My       Make New     My       Connection     Connection	Connecting to My Connection   Opening Port   Hide this message:   Hide to Cancel connection:	
Start Notwork Coon	ortions	12:42 AM

## **Dial-in Configuration**

Step 1 : Press start of task bar of window system and select "Setting"  $\rightarrow$  "Control Panel".



Step 2 : Double click the RAS Server icon from Control Panel.

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Certificates	Date/Time	Dialing	Display	Internet Options	Keyboard	Mouse	Network and Dial-up Co	
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Owner	Password	PC Connection	RAS Server	Regional Settings	Remove Programs	Storage Manager	System	
Start 🗔	Control Pane	4				2	🛯 🕹 12:44 AM	0

Step 3 : Select the "General" tab under "Advantech RAS Server Configuration". Select "Enable RAS", "Use Static IP Address" and enter a specified IP in Static IP Address blank.

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Owner	Passw	eral Input Lir	es Logon Sec P Addresses Address:	Urity Users ]	1	<u>Apply</u>	System	
ಶ Start	Control Panel	Ad	Ivantech RAS	Server		<	🛞 🕹 12:45 AM	Ø

Step 4 : Select the "Input Lines" tab under "Advantech RAS Server Configuration". Click Add button to setup the input line according to the available RAS device.

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Certificates	Date/Time	Dialing	Display	Internet Options	Keyboard	Mouse	Network and Dial-up Co	
<u> 8</u>	<b>P</b>	atech RAS	Server Con	Mgurateon	<b>A</b> ***	OK X	1 😼	
		Available Available Hayes Co L2TP Line PPPoE Lin RAS VPN I RAS VPN I Disconr	PRAS Device mpatible on CO o e 0 ine 0 ine 1 ine 2 nect Idle Second		Add Cancel	Apply		
ಶ Start 🛛	Control Panel	A	dvantech RAS	Server			🛞 🕹 12:55 AM	

Step 5 : select the "Logon Security" tab under "Advantech RAS Server Configuration". Select security protocol if necessary.

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Certificates	Date/Time	Dialing	Display	Internet Options	Keyboard	Mouse	Network and Dial-up Co	
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Owner	Passw	eral Input Lin abled Protocols Unencrypte MD-5 Challe Microsoft C	es Logon Sec d Password (PA inge-Handshak HAP (MS-CHAP) HAP Version 2 (	urity Users Users AP) AAP) M5_CHAP v2) CC	n Protocol (CHAP-	MD5)	System	
ಶ Start 🛛 👂	Control Panel	Ac	Ivantech RAS	Server		4	🕅 🕹 12:56 AM	0

Step 6 : Select the "Logon Security" tab under "Advantech RAS Server Configuration". Add a new account for remote access services.

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Owner	Passw Gene	eral   Input Li	nes Logon Sec	urity Users			System	
		MIN est	User Name: Password: Domain: OK	iweilee  ********       Cance		Add elete Apply		
Start 🔒	Control Panel		dvantech BAS	Sarvor			▲ 12:57 AM	1

Step 7 : After all settings are completed, press Apply button and then it will pop up the RasConfig dialog window. Press Yes button to save registry setting to storage card.

🔽 CE Re	mote Window							
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Certificate	es Date/Time	Dialing	Display	Internet Options	Keyboard	Mouse	Network and Dial-up Co	
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Owner	Pass W	eral Input Lin Enable RAS Use Static I Static IP	P Addresses Addresse	[192.168.254.	1	Apply	System	
灯 Start	Control Panel	Ad	dvantech RAS	Server		<	🕲 🕹 12:45 AM	0

RAS configuration procedure is completed and you can access ADAM-6501 via remote device.

## 4.4 Autorun Configuration Note

## Introduction

This document introduces how to execute applications automatically when you boot ADAM-6501 up.

## **Autorun Configuration Procedure**





Step 2 : Go to the "Misc" page in ADAM Configuration Utility.



📽 CE Remote W	indov	
My Computer		
2		
Recycle Bin	Configuration Utility (Version 1.1)	
	General Network Watchdog Misc	
	CF Disk Reboot Machine	
Internet	CF Disk Name: FLASH	
Explorer	Startup Programs Registry	
90	Program Path: <u>A</u> dd <u>D</u> elete <u>S</u> ave	
Pomoto	View	
Desktop	Web & Ftp Servers	
	Web Server Root: Ftp Server root:	
	\windows\www\wwwpub\ \Temp\	
	OK Cancel Apply	
🐉 Start 🛛 Con	ifiguration Utility	占 1:04 AM 🔞

Step 3 : Click on the "Program Path" bottom for selecting the program for Auto-Run setting..

CE Remote W	indow	
My		
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<b>1</b>		
ecycle Bin	Configuration Utility (Version 1.1)	
15	General Network Watchdog Misc	
2	CF Disk Reboot Machine	
Internet	CF Disk Name: ASH	
Explorer	Startup Programs Registry	
90	Program Path: <u>Add Delete</u> <u>S</u> ave	
22	View	
Remote eskton	Web & Etn Servers	
	Web Server Root: Etn Server root:	
	I\windows\www\wwwpub\ I\Temp\	
	OK Cancel Apply	
Start Con	ifiguration Utility	📥 1:04 AM

🛃 CE Remote	Window		
My Computer			
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Recycle Bin	Corillguration Utility (Version 1.1)		
	Open 🦻 🖻 📰 🚍	<b>№?</b> ок ×	
2 Internet	🔍 \Windows\		
Explorer	enotepad.exe	e c	
10	Cerdisp.lnk		
Remote Desktop	S cetlstub.dll	se c	
		<u>&gt;</u>	
	Name: cenotepad.exe <u>Type:</u>		
		Apply	
🐉 Start 🛛 🔿	Configuration Utility	Sa → 1	:17 AM 📝

Please choose the program then press "OK".

Step 4 : Click on the "Add" bottom to set the program for Auto-Run action.

CE Remote W	indow	
My Computer		
1		
Recycle Bin	Configuration Utility (Version 1,1)	
-	General Network Watchdog Misc	
Internet	CF Disk CF Disk Name: FLASH	
Explorer	Startup Programs         Registry           Program Path:          Add         Delete         Save	
Remote	\Windows\cenotepad.exe	
Desktop	Web & Ftp Servers Web Server Root: Ftp Server root:	
	\windows\www\wwwpub\ \Temp\	
Start Con	figuration Utility	占 1:18 AM 🚺

	nuo <del>v</del>				
My					
ecycle Bin	Gualiguration	niny (Version	1.1)	OK 🔀	
-	General	Network	Watchdog	Misc	
Internet	CF Disk CF Disk Name	FLASH		Reboot Machine Reboot	
Explorer	Startur Info	mation		OK ×	
12	Program			re	
Remote	Windo Star	tup.ini was create	u unuer (FLASH)	Vstartup	
esktop	Web & rop : Web Server R	oot:	Ftp Server roo	ot:	
	\windows\wv	/w/wwwpub/	\Temp\		
			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		
		Ū		Abbia	
151					-
Start Conf	iguration Utility				😪 🕹 1:19 AM 🚺

The ADAM Configuration Utility will add the selected program in Auto-Run requirement. Please press "OK" to finish the configuration.

## 4.5 Application Development Procedure

## Introduction

ADAM-6501 provides the Software Development Kit (SDK) and the built-in runtime library; you can use your existing windows-based programming skills to develop applications easily and rapidly through those tools. This document introduces how to develop custom application step by step.

## **Application development Procedure**

2. Install Microsoft eMbedded Visual C++ V4.00 with Service Pack 2

The Microsoft eMbedded Visual C++ tool is a desktop development environment for creating applications and system components for Windows CE .NET-powered devices. This version features new capabilities such as C++ exception handling, Run Time Type Information (RTTI), and a plethora of new debugger functionalities. Before you begin to develop your application, you must install Microsoft eMbedded Visual C++ first.

- 3. Insert ADAM-6501 CD into the CD-ROM in the host PC.
- Install ADAM-6501 Software Development Kit for eMbedded Visual C++ from below path: \Windows CE.NET V4.2\SDK\ADAM6501\_SDK\_V1.00.msi
- Install Microsoft ActiveSync 3.6 from below path: \Windows CE.NET V4.2\Utility\Microsoft ActiveSync 3.6.exe
- 6. Build the connection between the host and ADAM-6501 via ActiveSync. Further information about *ActiveSync*, please refer to "ActiveSync Connection".
- 7. Execute eMbedded Visual C++.

Select "File" → "New" to open a new project. Select your project type in the left blank of window and enter the new project name / location in the right side of window. Please note that CPU type must select Win32 (WCE ARMV4I).

New	? ×
Files Projects Workspaces	,
■WCE Application WCE ATL COM AppWizard WCE Dynamic-Link Library WCE MFC ActiveX ControlWizard WCE MFC AppWizard (dll) WCE MFC AppWizard (exe) WCE Static Library	Project <u>name:</u> [test] Logation: C:\TEMP\test © Create new workspace © Add to current workspace Dependency of:
	CPUS: Win32 (WCE ARMV4) Win32 (WCE ARMV4I) Win32 (WCE ABMV4I) Win32 (WCE MIPS16) Win32 (WCE MIPS1] Win32 (WCE MIPS1] FP)

9. Select "ADAM6501" in the main window of eMbedded Visual C++.

🛃 test - Microsoft eMbedded Visual C++	×
Eile Edit Yiew Insert Project Build Tools Window Help	
CTestApp ▼ [All class members] ▼ ♦ CTestApp ▼ ₹ 1 🖄 😂 🖪	1
test ADAM6501 Win32 (WCE ARMV41) Release ADAM6501 Device	•
Workspace 'test': 1 proj test files	
Build ( Debug ) Find in Files 1 ) Find in Files 2 /	
Ready	

10. After you complete above configuration procedure, you can start to develop your application. Press "Build"→ "Build xxx.exe" to compile your program to .exe file and download it to ADAM-6501.

😥 test - Microsoft eMbedded Visual C++
File Edit View Insert Project Build Tools Window Help
CTestApp (A Build test.exe F7
test ADAM6501 All 41) Release ADAM6501 Device
Batch Build
🚯 Workspace 'test': 1 pi
E test files Start Debug
Des Cource Files Update Remote Output File(s)
StdAtx.cpp test.cpp Execute test.exe Ctrl+F5
Et active Configuration
testDlg.cpp
Header Files
1
Build / Debug / Find in Files 1 / Find in Files 2 /
Builds the project

11. If you want to execute your program, press "**Build**" → "**Execute xxx.exe**" and then the program will be executed in ADAM-6501.

## 4.6 Save your settings

Once you made changes for ADAM6501, you may need run RegSave.exe to save Windows CE system Registry to CF card or on-board flash disk to keep your settings. See <u>Registry Saving</u> section for detail.

## **Registry Saving**

Running RegSave.exe to save system Registry to CF card or on-board Flash. you can specify command line parameter for RegSave.exe shown as below:

RegSave [-f] [-s] [-fs]

[-f] : Save Registry to Flash and CF card

[-s]: RegSave will not display any message despite whether the action is succeeded or not.

[-fs]: combination of [-f] and [-s]

If you running RegSave.exe without parameter, it will only save Registry to CF card and it will display message to notify you whether the Registry has been successfully saved.

## 4.7 ADAM-6501 Network Administration User Guide

## verview

Advantech ADAM-6501 series is a built-in Windows ® CE solution offering a pre-configured image with optimized onboard device drivers. Micro Windows ® CE is a compact, high-efficient and hard real-time operating system that is designed for embedded systems without HDD limitation.

ADAM-6501 remote administration is a powerful function, which allow users connect to filed-site ADAM-6501 by standard browser and configure ADAM-6501's network and system settings remotely.

ADAM-6501 remote administration includes two major functions; network administration and system administration.

• Network administration – With ADAM-6501 well-configured, user can connect to local network or public network (Internet).

## 4.7.1 Network administration

Following steps introduces how to connect the ADAM-6501 by standard browser, and configure the field-site ADAM-6501's network setting remotely.

**Step1:** Execute standard browser (for instance, Internet Explorer), and enter ADAM-6501 (which you would like to connect)'s IP address as below,

IP address/networkadmin Instance: 172.18.3.89/networkadmin

Step2: System will ask you to enter password when you login ADAM-6501 first time.

Welcome to the ICS Admin U	Jtility - Microsoft Internet Explorer	
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周址① 🐻 http://172.18.3.89/Netwo	vorkAdmin/	✓ ● 移至 連結
msn <sup>M</sup> •		
Home   Network   I	Peatures   Advanced   User Accounts	
Welcome to the Windows CE networ	orking configuration page! With this device properly configured you can connect your local	
network to the Internet. Please careful	ully consider the following configuration options before continuing.	
Admin password setup	p	
Discussion and the second	······································	
contains numbers, letters, and punctu	2e. Choose something that is both easy to remember and is a strong password (such as one that uation). The username for your gateway is ADMIN.	
Enter new password		
Confirm new password		
Compatibility Made		
Compatibility Mode		
Choose the level of compatibility and	d security required when configuring the device. Once this option is selected, it can never	
be changed.		
The compatibility mode applies to wh	whether clients will be able to configure the device, such as being allowed to access this	
NetworkAdmin page. It does not affe Security Mode', Windows 95, Windo	fect their ability to use most of the device's features. For instance, even if you select Highest dows 98. Windows ME, and other onerating systems will be able to use most of the device's	
functionality.	······································	
The commatibility mode you chose w	will also affect which clients can access files and/or printers shared from this device. Setting 'High	
Security Mode' will block Windows	95/98/ME from accessing password protected resources.	
Highant Socurity Mode (	(Windows 2000, VP, and above)	
The sateway will use a more secure	(Trinuo Trs 2000, AI, and 2007C) (Trinuo Trs 2000, AI, and 2007C)	
Windows 95, Windows 98, Window	ws ME, or browsers other than Internet Explorer.	
DLJ C	- 11- J. /III J OF OO J.VIT.)	

NOTE: The default user name is ADMIN

**Step3:** Connect to the ADAM-6501 again, and the system will ask you to enter user name and password. After authorization, you will enter Windows CE networking setup page.

Enter Netw	vork Passwor	d	? ×
<b>?</b> >	Please type yo	ur user name and password.	
IJ	Site:	172.18.3.89	
	<u>U</u> ser Name	ADMIN	
	<u>P</u> assword	×	
	<u>D</u> omain		
	$\Box$ Save this p	password in your password list	
		OK Cano	el



## **Network settings**

Change IP information about the ADAM-6501.

1. Change device name

Enter proper device name and press Submit button.

Please **MUST** change ADAM-6501's device name at your first usage.

Basic Network Configuration - Microsoft Internet Explorer	🔳 🖻 🚺
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局址 ① 🥘 http://172.18.3.89/NetworkAdmin/network	🔽 🎦 移至 連結 🎽
msn <sup>1</sup> - 🔽 戶 搜尋 - 2 醒目提示 👭 遵項 🛛 封鎖快歸親盜 (23) - 🕁 Hotmail 🚜 Messenger [2 我的	ካ MSN
Home   Network   Features   Advanced   User Accounts	<u>()</u>
No Interfaces Present: There are no interfaces configured. Please use Advanced Settings.	
Device Name Note: Setting the device name may take several seconds.	
Device Name ADAM-6501 Submit	
IPV6 Config	
Enable IPV6 Submit	
9/2000-2002 Microsoft Corporation, All rights reserved.	
	2
	新編内部網路

**NOTE:** When you change the device name, ADAM-6501 will register his device name to DNS (Domain Name Server) automatically. If you would like to search this ADAM-6501 next time, you can search it by his device name instead of IP address.

```
(C) Copyright 1985-2000 Microsoft Corp.
C:\Documents and Settings\wincent.chang>ping uno-2059_1
Pinging uno-2059_1 [172.18.3.89] with 32 bytes of data:
Reply from 172.18.3.89: bytes=32 time<10ms TTL=128
Ping statistics for 172.18.3.89:
Packets: Sent = 4, Received = 4, Lost = 0 <0% loss>,
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

## IPV6

If you want to enable "IPV6", please check "Enable IPV6" and press Submit button. System will ask you to restart ADAM-6501, the ADAM-6501 will support IPV6 after restarting.

📸 CE Remote Window	
Eile Edit Help	×
Pocket CMD v 4.20	~
\≻ ipconfig	
Windows IP configuration	
Ethernet adapter (DM9CE1):	
IP Address : 172.18.3.89	-
Subnet Mask : 255.255.255.0	
IP Address : fe80::2d0:c9ff:feal:7834%5	
Tunnel adapter []:	
Interface Number : 4	
Tunnel adapter [6to4 Pseudo-Interface]:	
Interface Number : 3	
Tunnel adapter [Automatic Tunneling Pseudo-Interface]:	
Interface Number : 2	
IP Address : fe80::5efe:172.18.3.89%2	
/>	
	~
🐉 Start 🛛 🗱 Command Prompt	🖓 🕹 12:01 AM 🔞

## **Advanced Setting**

"Advanced setting" function allows ports to be statically reserved and mapped.

System will list all of the adapters present on the ADAM-6501. You can configure the adapter bindings as public, private, bridged, or default to simply bind it to TCP/IP.

Caution: Incorrect settings may render the ADAM-6501 inoperable.



## **User Accounts**

"User Accounts" function allows you to add, modify and delete user accounts on this ADAM-6501.

- 1. Create a user account
- <1-A> Enter a proper user name in the "Create a new user..." filed, and press Create button.
- <1-B> Enter a password for this account, and press Create Account button.

User Configuration - 1	Microsoft Internet Explorer		PX
檔案(E) 編輯(E) 檢視	① 我的最爱(L) 工具(D) 說明(L)		1
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周址① 🔕 http://172.18.3.	89MetworkAdmin/modify-user	💙 🔁 移至	連結 »
msn <sup>N</sup> •	🔽 🔎 搜尋 👻 🛃 目提示 💦 選項 文 封鎖快顯視窗 (23) 🔹 🐸 Hotmail 🚢 Messenger 😢 我的 MSN		
Home   Netw	ork   Features   Advanced   User Accounts		~
User Configuratio	n		
Create an account for (	Juest		
N			
Logon Name	Guest		
Contirm Password	•		
Create Account	J		
	Windows CE Version: (4.20) Build Version: (1088) SysVersion: (1088) 40000-2002 Microsoft Comparation: All John recoverd		
	Secondon monori orporatori, su ngita reativeo.		
			~
<u> </u>		🤜 近端内部網路	

<1-C> System will create a user account according to your information.

If you would like to change the password of this user account, please press Modify button behind the user name.

If you would like to delete the user account, please press Delete button behind the user name.

🖆 User Configuration - Microsoft Internet Explorer	
植案 (2)编辑 (2) 教的 最爱 (4) 工具 (1) 説明 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
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雨址 (D) 👩 http://172.18.3.89/Network.&dmin/user	🔽 🛃 移至 連結 👌
msn 🕴 🗸 建绿母 🔹 🥒 提目提示 🔢 遵項 🔽 封鎖快購減窗 (23) 🔹 🖂 Hotmail 🔏 Messenger 😧 我的 MSN	
	×
Home   Network   Features   Advanced   User Accounts	
User Manager Setup	
Configure user information on this device.	
Logon Name	
Guest Modify Delete	
ADMIN Modify	
Create a new user Create	
User Group Setup Configure which members are part of groups.	
20 15 	
Group Name	
PowerUsers moully Delete	
Create a new mounty Delete	
Windows CE Version: (4.20) Build Version: (1088) SysVersion: (1088)	
1/2000-2002 mitorson corporation. An rights reserved.	
	📢 近端内部網路

## 2. Create a group

<2-A> Enter a proper group name in the "Create a new group..." field, and press Create button.

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<2-B> If you want to chose which users are members of group, please press Modify button behind the group name. Set the box next the user's name to have them be part of this group.

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<2-C> If you want to delete a group, please press Delete button behind the group name.

#### Features

Allows configuration of advanced gateway features. You can configure the File server, FTP server and Telnet server accordingly.



## 4.7.2 File Server

<A-1> Choose the folder in ADAM-6501 you wish to share and then enter a share name then press "Submit".

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<A-2> Press Modify button, and then you can set the permissions for the share folder.

If you want to share this folder to anyone on the network, please select "PWD Disable" and press Submit button.



## How to create a network disk??

Windows CE provides the command to enable remote network disk as a local disk.

<Command>

Usage:

net use [<local name>|\*] [<remote name>] [/user:<username>] [/d]

or

net view <computername> | /DOMAIN:<domainname>

<Description>

[/d] Disable network disk

<Instance>

Step1: Share the folder in the remote site to authorized user, and set the permissions (read/write).

<EX> Remote Windows PC: <Computer name> = NB940107

<Shared folder name> = David-PC

<Authorized user name> = david.lee

# Step2: Execute the blow command by local ADAM-6501's command prompt, and system will ask you to enter your user name, password and domain.

PS: if you would like to save your user name and password as <u>"default user"</u>, please check "Update Default Credentials".

<EX> net use David-PC <u>\\NB940107\David-PC</u> /user:david.lee

net u	se David-PC	//NB940107/Da	vid-PC /user:david.lee	
	Logan f	ailed	OK 🔀	
	<b>?</b>	> Resource: \\	NB940107\DAVID-PC	
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Pocket CMD v 4.20 > net use David-PC \\NE940107\David David-PC successfully mapped to \\NE >> ■	-PC /user:david.lee 040107\David-PC
💦 Start 🛛 🎆 Command Prompt	🖓 🕹 12:13 AM 🔀

Step3: The remote network disk (Ex:\\Pocheng-xp\DataCenter) will launch in the local ADAM-6501's "Network" folder (EX: \Network\DataCenter).

File     Edit     Yiew     Go     Favorites       Address     \Network       Image: David-PC	
Address \Network  David-PC	×
David-PC	~

## 4.7.3 FTP Server

The FTP server accepts ftp connections and allows the ADAM-6501 to be configured remotely.

## **Basic Configuration**

You can set following items in Basic Configuration field..

- Server enabled- Will the FTP server accept incoming connections?
- Require authentication- Will the FTP server prompt for user name and password?
- Allow anonymous users- Allow users without an account on the server to login to the server?
- Allow anonymous uploads- Allow anonymous users to upload and change files?
- Allow anonymous user to virtual roots- Allow anonymous users to view and access files in virtual roots?
- Default Directory- The default directory that anonymous FTP users will log in to.

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Ftp Server Configuration		
The ftp server accepts ftp connections and allows the device to be configured remo	ely.	
Use extreme contion when configuring the ftp server Chould the firse	we be missenfirmed a maliging use could gain complete control of the files on	
your gateway. The ftp server is intended for advanced users only.	ver be miscomigueta, a mancious user count gan complete control of the mes on	
The Ftp server will be restarted after any changes to the the basic configuration or t	he virtual roots. That will terminate any Ftp connections currently active.	
Basic Configuration		
Server Enabled	O Yes	
Will the ftp server accept incoming connections?	💿 No	
Require Authentication	Yes	
Will the ftp server prompt for user name and password?	O No	
Allow Anonymous Heave	() Van	
Allow users without an account on the server to login to the server?	O No	
	0110	
A11 A YY 1 1	OW	
Allow Anonymous Uploads	O Yes	
Allow Anonymous Uploads Allow anonymous users to upload and change files?	⊙ Yes ⊛ No	
Allow Anonymous Uploads Allow anonymous users to upload and change files? Allow Anonymous users to virtual roots	<ul> <li>○ Yes</li> <li>         No         ○ Yes     </li> </ul>	
Allow Anonymous Uploads Allow anonymous users to upload and change files? Allow Anonymous users to virtual roots Allow Anonymous users to view and access files in virtual roots?	<ul> <li>○ Yes</li> <li>③ No</li> <li>○ Yes</li> <li>④ No</li> </ul>	
Allow Anonymous Uploads Allow anonymous users to upload and change files? Allow Anonymous users to virtual roots Allow Anonymous users to view and access files in virtual roots? Default Directory	<ul> <li>○ Yes</li> <li>③ No</li> <li>○ Yes</li> <li>④ No</li> <li>\Temp\</li> </ul>	
Allow Anonymous Uploads Allow anonymous users to upload and change files? Allow Anonymous users to view and access files in virtual roots? Allow Anonymous users to view and access files in virtual roots? Default Directory The default directory that anonymous FIP users will log in to	<ul> <li>○ Yes</li> <li>③ No</li> <li>○ Yes</li> <li>④ No</li> <li>\Temp\</li> </ul>	
Allow Anonymous Uploads Allow anonymous users to upload and change files? Allow Anonymous users to view and access files in virtual roots? Allow Anonymous users to view and access files in virtual roots? Default Directory The default directory that anonymous FTP users will log in to	<ul> <li>○ Yes</li> <li>③ No</li> <li>○ Yes</li> <li>④ No</li> <li>\Temp\</li> </ul>	
Allow Anonymous Uploads Allow anonymous users to upload and change files? Allow Anonymous users to to virtual roots Allow Anonymous users to view and access files in virtual roots? Default Directory The default directory that anonymous FTP users will log in to Logs	<ul> <li>○ Yes</li> <li>⊙ No</li> <li>○ Yes</li> <li>⊙ No</li> <li>\Temp\</li> </ul>	
Allow Anonymous Uploads Allow anonymous users to upload and change files? Allow Anonymous users to view and access files in virtual roots? Default Directory The default directory that anonymous FTP users will log in to Logs Use this section to control what information about the FTP transactions is logged to	<ul> <li>○ Yes</li> <li>⊙ No</li> <li>○ Yes</li> <li>⊙ No</li> <li>\UTemp\</li> <li>o file</li> </ul>	
Allow Anonymous Uploads Allow anonymous users to upload and change files? Allow Anonymous users to to virtual roots Allow Anonymous users to view and access files in virtual roots? Default Directory The default directory that anonymous FTP users will log in to Logs Use this section to control what information about the FTP transactions is logged to Log Directory.	<ul> <li>○ Yes</li> <li>⊙ No</li> <li>○ Yes</li> <li>⊙ No</li> <li>\UTemp\</li> </ul>	

## Logs

Use Logs section to control what information about the FTP transactions is logged.

FTP Server Configuration	Microsoft	Internet Exp	olorer									
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Deraum Directory The default directory that anonyn	ious FTP use	rs will log in te	)		\Temp\							
Logs Use this section to control what i	nformation at	out the FTP tr	ansactions is logged	l to file								
Log Directory The directory to store the log file	n				Windows							
Log Size The maximum size of the log file	(in KiloBytes	)			4							
Log Zones Check the information that you w	ant written to	the log			<ul> <li>Errors</li> <li>Visits</li> <li>File Transfers</li> <li>FTP Commar</li> <li>Diagnostic In</li> <li>Details</li> </ul>	ds orma	ation					
FTP Users Jse this section to control access Jou can configure a separate hor Jenying read permission to a use	o the FTP se e directory fo ;, denies com	rver for each u r each user by plete access to	ser. To add new use appending the user the ftp server for th	ars go to the J 's name to ho at user.	Add Users page, me directory. Allo Rea	w ł	Allow Write	Allow Virtual	Allow Hidden Files			
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## FTP Users

Use FTP Users section to control access to the FTP server for each user. To add new user, please go to the "User Account" page.

You can configure a seprate home directory for each user by appending the user's name to home directory.

Denying read permission to a user, denies complete access to the FTP server for that user.

FTP Server Configu	ration - Microsoft	Internet Explorer								. @ 🛛
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FTP Users Use this section to control You can configure a separ	access to the FTP ser ate home directory for	ver for each user. To add n r each user by appending t	new users go to the A he user's name to ho	Add Users page. me directory.						2
UserName The login name of the user	Home Dir The path to u	ectory ectory	r for that user.	Allow Read Allow the user to login and download files from the server	Allow Write Allow the user to upload and change files on the server	Allow Virtual Roots Allow the user to view the virtual roots	Allow Hidden Files Allow the user to view hidden and system files on the server			
Guest	<b>VFLASHVFT</b>	PROOT								
ADMIN	N					~				
(If the user name is in red, Submit) Virtual Roots Use this section to add/del	the values in that row	r are only recommended v FTP server. Virtual roots hese roots will appear as f	alues. Please edit as allow you to map a j olders under the use	appropriate and click on "Upda physical directory to an director i's home directory.	te Users" foo y with a diff	the values to	o take effect)			
The virtual directory name	e cannot contain of the	following characters: 🏷	"A The directory path	h cannot contain anv character f	rom the prev	ious list as w	ell. but mav		1 oc 20 a. 40.000 a	2
完成									] 近端内部網路	

## Virtual Roots

You can add/delete virtual roots to the FTP server. Virtual roots allow you map a physical directory to and directory with a different name.

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地 @ http://172.18.3.89/NetworkAdmin/ftp						🔽 🄁 移至 連結
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			POLYO		server	
Guest VFLASHVFTPROOT						
ADMIN N				~		
/ITUAL KOOIS Jos this section to add/delete virtual roots to the FTP server. Virtual roots the user has permissions to see virtual roots, these roots will appear as he virtual directory name cannot contain of the following characters: vo- achide the backslash.	allow you to map a physical dire folders under the user's home dirt "If The directory path cannot con	ctory to an dire ectory. tain any charact	tory with a er from the p	different nam previous list a	e. s well, but may	
Virtual Directory Name The name of the directory to display under the users home directory	Directory Path Path to the physical directory				Delete Check the virtual directories you would like to delete	
Virtual Directory Name he name of the directory to display under the users home directory «Enter alias for new virtual directory»	Directory Path Path to the physical directory <enter path="" physical="" td="" virtual<=""><td>directory&gt;</td><td></td><td></td><td>Delete Check the virtual directories you would like to delete</td><td></td></enter>	directory>			Delete Check the virtual directories you would like to delete	
Virtual Directory Name The name of the directory to display under the users home directory <enter alias="" directory="" for="" new="" virtual=""> Submit Windows CE Version: (4, 7000-2002 Micr</enter>	Directory Path Path to the physical directory <enter path="" physical="" virtual<br="">20) Build Vesion: (1089) SysVers soft Corporation. All rights reserve</enter>	directory> ion: (1088) ed.			Delete Check the virtual directories you would like to delete	

## 4.7.4 Telnet Server

The telnet server accepts telnet connections and allows the ADAM-6501 to be configured remotely.

## **Telnet Server Configuration**

- Server Enabled- Will the telnet server accept incoming connections?
- Require Authentication- Will the telnet server prompt for user name and password?

## **Telnet Server Users**

Choose which users can access the telnet server.

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the D) A http://172.18.3.89/Network Admin/telnet	~ ~ ~		~ ~	▼ 🖪 移至 連結
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Home   Network   Features	Advanced   User A	lecounts		
Felnet Server Configuration				
The telnet server accepts telnet connections and	allows the device to be configu	red remotely.		
Use extreme caution when configuring the	telnet server. Should the tel	net server be misconfig	ured, a malicious user could	
sain complete control of your home gateway. The t	elnet server is intended for ad	vanced users only.		
Server Enabled		⊙ Yes		
Will the telnet server accept incoming connection	s?	O No		
Require Authentication		⊙ Yes		
Will the telnet server prompt for user name and pa	assword?	O No		
Contraction				
Submit				
Telnet Server Users				
Telnet Server Users Choose which users can access the telnet server.				
Telnet Server Users Choose which users can access the telnet server. User and Group Names	Enabled	Disabled	Default	
Telnet Server Users Choose which users can access the telnet server. User and Group Names Guest	Enabled	Disabled O	Default ©	
Telnet Server Users Choose which users can access the telnet server. User and Group Names Guest ADMIN	Enabled ◯ ⊚	Disabled O	Default ⊙	
Telnet Server Users Choose which users can access the telnet server. User and Group Names Guest ADMIN PowerUsers (Group)	Enabled ◯ ⊚ ◯	Disabled O O	Default ☉ ☉	
Telnet Server Users Choose which users can access the telnet server. User and Group Names Guest ADMIN PowerUsers (Group) RasUsers (Group)	Enabled ○ ◎ ○	Disabled O O O	Default ☉ ☉ ⊛	
Telnet Server Users Choose which users can access the telnet server. User and Group Names Guest ADMIN PowerUsers (Group) RasUsers (Group) Allow default items If checked, items se	Enabled © © O t as default will be treated as e	Disabled O O O N nabled	Default ☉ ☉ ☉	
Telnet Server Users Choose which users can access the telnet server. User and Group Names Guest ADMIN PowerUsers (Group) RasUsers (Group) Allow default items If checked, items se Update	Enabled © © O t as default will be treated as e	Disabled O O O nabled.	Default ☉ ☉ ☉	
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Telnet Server Users Choose which users can access the telnet server. User and Group Names Guest ADMIN PowerUsers (Group) Allow default items If checked, items se Update Windowe CE V/ 2000-2	Enabled end end end end end end end	Disabled	Default ☉ ☉ ☉	

## **Restart Network**

Restart for network change to take effect. To make the changes you have made take effect immediately, please press "Restart Networking" button, and then the home gateway networking services will be restart.