

Advantech AE Technical Share Document

Date	02/02/2016	016 Release Note 🗆 Internal External					
Category	□FAQ∎SOP	Related OS	Windows OS				
Abstract	How to set up device server/Modbus GW configuration in Web-Based						
ADSITACI	interface						
Keyword	Device Server, Modbus Gateway, web configuration						
Related Product	EKI-152x-AE/BE, EKI-122x-AE/BE, Adam-4570/1/2 series						

Problem Description:

This SOP would help customer to set-up our Device server & Modbus gateway (EKI-152x-AE/BE series & EKI-122x-AE/BE series & adam-4570/1/2 series) in web-based interface which use latest firmware and go with Advantech EKI Device Configuration Utility 1.71 or upper version.

We moved most configuration into Web-Based interface except VCOM mapping. Using a standard web browser like IE/Chrome/Firefox, entered your <u>*EKI-series*</u> IP Address. The default IP address setting is **10.0.0.1**(Eth1) & **10.0.0.2**(Eth2). Also you can use previously assigned IP address for this device server. Once the devices can be scan in the utility, you also can present with the following steps.

Brief Solution - Step by Step:



Step1: Using *Utility* enter to browser configuration setting page

Using Advantech EKI Device Configuration Utility 2.0 to scan the attached devices.

After found devices, you can click the **"Launch Browser"** in Ethernet setting to enter Web-Base setting for detail configuration.

Advantech EKI Device Configuration Utility v2	.00	
File View Management Tools Help		
KI Device	Basic	
Erial Device Server (6)	Launch Browser	
⊕- 🚰 ADAM-4571-CE	Dougen Diowsei	
 	MAC Address	74:FE:48:05:00:23
	Static IP	•
🖻 📲 EKI-1522	, , , , , , , , , , , , , , , , , , , ,	100 160 1 54
🖻 📲 EKI-1522-F724B8	Address	192.108.1.54
- 2 Eth 1 (192.168.1.52) - 2 Eth 2 (10.0.0.2)	Subnet Mask	255.255.255.0
Port 1	Default Gateway	
	DUCD 41 10.0	
□- EKI-1524-BE-050023	DHCP Advanced Sett	ng
Eth 1 (192.168.1.54)	DHCP Timeout(s)	30
Ett 2 (10.0.0.2)	DNS Setting	
ERI-5526	Automatic	-
a EVI-5725	Primary DNS Server	0000
- a FKL-5725	Timery Dies Server	0.0.0.0
EKI-5725	Secondary DNS Server	0.0.0
- A Favorites		
E- K Serial Ports		
System Senal Forts System Senal Fort System Senal Forts System Senal Fort System Senal Fo		
E- Virtual Com Ports		
COM3		
University COM4		
P.1. 10 10		
Ethernet Port 2		
MAC: 74:FE:48:05:00:24		
Static IF Address: 10.0.0.2		
Default Catavara 0.0.0.0		
Default Galeway: 0.0.0.0		



Step2: Welcome Page

In Web Configuration interface, you can see the welcome page which shows the whole device server configuration.

And more, you can key in your previously assigned IP address in the web browser without Utility.

I Svstem	Welcome to
Ethernet Configuration	
🖉 Eth 1	ERI-1524-BE Web Configuration Server
Eth 2	We provide following function to configure EKI-1524-BE
Port Configuration	System
Port 2	■ device name, device description, firmware message
Port 3	
Port 4	UART Configuration : baud rate, parity bit, data bits, stop bits, serial type, flow control
Monitor	Mode Configuration : virtual COM port mode, control mode(TCP/UDP), data mode(TCP/UDP)
Svslood	
Syslogd Setting	IP address, netmask, default gateway and MAC address
Syslogd Message	
Tools	Monitor
Ping Report	• monitor port data
Management	Alarm
LogFile	■ mail setting, trap setting, SNMP agent setting, event setting
Change Password	Change Password
Export	■ change the login password
- Import	
	export
	Import
	■ Import configuration file
	Reboot
	∎ after configuring, you must restart the device and the setting will take affect



Step3: System Page

You can see the firmware version and also you can change the Device Name and Device Description on this page. And enable/disable the Telnet, and SNMP functions. Moreover, you can set the Time zone related setting.

(=) @ http://192.168.1.54	/cgi-bin/index.cgi	P → C Ø EKI-1524-BE Web Server ×				
ADVANTECH ÍCom						
Home	System Configura	tion				
System	Firmware version:	1.97				
Ethernet Configuration	Revision number	3550				
Fth 2	Device Name					
Port Configuration	Device Description	0				
Port 3 Port 4	Telnet	O Disable ○ Enable 				
	SNMP	O Disable				
Monitor	Time Zone	(GMT)Casablanca,Monrovia 🗸				
Svslogd	Local Time	2016 / 1 / 31 4 : 14 : 24 Modify				
Syslogd Setting	Daylight Saving	Disable OEnable				
Syslogd Message	Begin Time	/ Date(MM/DD)				
Tools	End Time	Date(MM/DD)				
Ping	Time Server					
Hanagement	Save					
Change Password						
Import						



Step4: Network Configuration Page

Click the Eth1/Eth2 Configuration, there are Net Mode, IP Address, Subnet Mask, Default Gateway and DNS. Enter the corresponding values for your network environment.

Remember press "Save" after fill in all values.

C () () http://192.168.1.54	/cgi-bin/index.cgi		Q - Q	<i>e</i> EKI-1524-BE Web Server	×]
ADVANTECH ÍCom						
Home	Eth1 Configuration					
E System	Mode	Static IP	~			
Ethernet Conliguration	MAC Address	74-FE-48-05-00)-23			
Beth 2	IP Address	192.168.1.54]			
Port Configuration	Subnet Mask	255.255.255.0	1			
Port 1	Default Gateway		1			
Port 2	DNS	Automatic C	Specific			
Port 3		Currer	nt Status			
Port 4	IP 1	192.168.1.54				
Monitor	IP 2	fe80::76fe:48ff:	fe05:23			
Harm						
Syslogd	Save					
Syslogd Setting						
Ping						
Reboot						
🖮 🖅 Management						
🗊 LogFile						
Change Password						
Export						
import						



Step5: Port Configuration Page –Basic Page

There are **Basic Setting**, **Operation Mode**, and **Advanced Setting** in the serial port configuration.

In the Basic Setting page, you can set up serial type, Baud Rate, Parity, Data Bits, Stop Bits, Flow Control those serial setting.

Remember press "**Save**" after fill in all values.

Home System Eth 1 Eth 1 Eth 1 Eth 2 Port Configuration Atamn Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd Systegd <t< th=""></t<>
Home Port 2 configuration Basic Operation Advanced Image: System Image:



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Step6: Port Configuration Page – Operation Page

In the Operation Page, you can set up VCOM mode, USDG Data Server Mode, USDG Data Client Mode, USDG Control Mode...etc.

Remember press "Save" after fill in all values.

← → Ø http://192.168.1.54/	/cgi-bin/index.cgi				ۍ ، ک	🧔 EKI-1524-BE Web S	erver X	
ADVANTECH ICom								
Home	Port 2 cont	figuration						
Ethernet Configuration	Basic	Operation	Ad	vanced				
Eth 1	Mode		Virtual	COM Mode	~			
Eth 2	Host Idle Tim	eout(s)	60					
Port Configuration	Response Tin	neout(ms)	0]				
Port 2	Frame Break(ms)	0]				
Port 3	Pack conditions (Pack sent immediately when reach 1024 Bytes)							
Port 4	By size			Bytes(1 ~	~ 1024 E	Bytes)		
Monitor	🗆 By interva	I		ms(1 ~ 6	0000 m	s)		
P ■ Alarm Syslogd	□ By end-ch	aracter	Char Char	Format A≲ Value	CII 🗸			
Syslogd Setting		R	VCOM Ex	tra Opt	ions			
Tools	RVcom Numb	er	0 🗸					
Ping	Port Data But					ing		
Reboot	Media		NONE	~				
Management	When Data Fu	III	Stop 🗸	•				
Change Password	Save							
Export								
Import								

(=) @ http://192.168.1.54/cgi-bin/index.cgi

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P → C 🥔 EKI-1524-BE Web Server 🛛 🗙

ADVANTECH ICom

Home	Port 2 configuration					
Ethernet Configuration	Basic Operation	Advanced				
Eth 1 Eth 2 Eth 2 Port Configuration Port 1 Port 2 Port 3	Mode	USDG Data Mode 🗸				
	Protocol					
	Data Idle Timeout(s)	60				
	Data Listen Port	5302				
	Command Listen Port	5400				
Port 4	Response Timeout(ms)	0				
u Monitor	Frame Break(ms)	0				
₽ IIII Alarm	TCP Mode Extra Options					
	Auto Connect To Peer IP					
	Port Data Buffering					
	Media	NONE V				
🖉 Ping	When Data Full	Stop 🗸				
Reboot	Pack conditions (Packet sent immediately when reach 1024 Bytes)					
🖻 🐨 Management	By size	Bytes(1 ~ 1024 Bytes)				
LogFile	By interval	ms(1 ~ 60000 ms)				
Change Password	Py and character	Char Format ASCII 🗸				
		Char Value				
	By character-timeout					
		Peer for Receiving Data				
	Peer Number	0 V "0" equal USDG Data Server Mode;				
	Save	20 equal USDG Data Client Mode				

← → Ø http://192.168.1.54/cgi-bin/index.cgi

P → C 🧉 EKI-1524-BE Web Server

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ADVANTECH ICom

Home	Port 2 con	figuration	_	
Ethernet Configuration	Basic	Operation	Advanced	
Eth 1	Mode		USDG Control Mode '	
Eth 2	Protocol		TCP	
Port Configuration	Data Idle Tim	eout(s)	60	
APOrt 1	Data Listen P	ort	5302	
Port 3	Command Lis	sten Port	5400	
Port 4	Hangup Char	acter	+	
🖣 🛄 Monitor	Guard Time(r	ns)	1000	
4" Alarm	Save			
Syslogd Message				
Tools				
Ping		•		
Reboot				
Management				
Change Password				
Export				
🔤 Import				

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Step7: Port Configuration Page – Advanced Setting Page

!!! These advanced settings are just for some special application cases. We strongly recommend do not enable the advanced settings in normal usage.

C () (2 http://192.168.1.54	/cgi-bin/index.cgi			, P = (3 🥖 EKI-15	24-BE Web Server	×	
ADVANTECH ICom								
Home System Ethernet Configuration	Port 2 configurat Basic Operat	ion tion	Advanced		0	(ms)		
Eth 2 Port Configuration Port 1	Ignore Purge Disable Character Timeout Detection Disable Multiple Connection							
Port 2	Enable BufferData PortTimeout	Size			0	(ms)		
Port 1 Port 2 Port 3					0			
Port 4	FCH Write to FIFO Size USDG Advar	nced O	ptions(Flow	Control	96 128 will overw	rite these optic	ons)	
Syslogd Setting Syslogd Message	RTS Control DTR Control		On On	× ×				
 ✓ Ping ✓ Reboot ✓ Management 	Dave							
LogFile LogFile Change Password Export Export								



In the monitor page, you can monitor Port status. There are three statuses. There are Setting, Statistic, ConnectedIP these three sub-page.

Setting page for monitor Port status Setting. Statistic page for tx/rx transmitted/received data counter ConnectedIP page for connected device IP address

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You can set the e-mail server and SNMP Trap server in the Setting page, and set up the event type in the Event page.

← → Ø http://192.168.1.54	/cgi-bin/index.cgi		5 - Q	EKI-1524-BE Web Server	×	
ADVANTECH ICom						
Home	Alarm Setting					
System		Mail	Server			
Eth 1	Mail Server					
Eth 2	From Email address	admin@advantech.co	m			
E Port Configuration	Email address 1					
Port 1	Email address 2					
Port 2	Email address 3					
APOrt 3	Email address 4					
E Monitor		SNMP T	rap Serve	er		
Port 1	Trap Server					
Port 2	Trap Server Port	162				
Port 3	Trap Version	●v1 ○v2c				
Port 4	Trap Community	public				
Alarm Setting		SNMP Ag	jent Setti	ng		
Event	Read Community					
🖻 🗁 Syslogd	Write Community					
Syslogd Setting	Contact					
Syslogd Message	Location					
Ping	Save					
Reboot						
🖮 河 Management						
UogFile						
Change Password						
Export						
🝋 ітрогі						



P → C G EKI-1524-BE Web Server

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Home	Event Type					
System	System Event					
Ethernet Configuration	Cold Start	□Mail	Trap	Log		
Eth 2	Warm Start	□Mail	Trap			
Port Configuration	Authentication failure	Mail	Trap			
Port 1	IP address changed	□Mail				
Port 2	Password changed	Mail				
Port 3	Ethernet1 link down	□Mail	□Trap	Log		
Port 4	Ethernet2 link down	Mail	Trap	Log		
Monitor	DCD changed					
Port 2	Port 1	Mail	Trap	Log		
Port 3	Port 2	Mail	Trap	Log		
Port 4	Port 3	Mail	Trap	Log		
Alarm	Port 4	Mail	Trap	Log		
Setting	DSR changed					
Event	Port 1	Mail	Trap	Log		
Syslogd	Port 2	Mail	Trap	Log		
Syslogd Setting	Port 3	□Mail	□Trap	Log		
	Port 4	□Mail	□Trap	Log		
Ping	Save					
Reboot						
🖻 🖅 Management						
Change Password						

Export inport

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Step10: System log debug message

Enable system log debug message that can observe device server behavior if there is some error happened. This function can help customer easily to debug.

<p.s. this function support EKI-152x-BE/EKI-122x-BE>



The configuration will take effect after clicking "Save" button.

All configurations would save to flash memory after this reboot step. Press the **"Reboot"** button and the system will go to reboot. After rebooting, the modified configuration would success to rewrite and device will take a few seconds to reconnect with the new values.

C () () http://192.168.1.54	4/cgi-bin/index.cgi $\mathcal{P} \star \mathcal{O}$ 🧭 EKI-1524-BE Web Server 🗙
ADVANTECH ICOM	F
Home System Ethernet Configuration Eth 1 Eth 1 P Eth 2 Port Configuration Port 2 Port 3 Port 3 Port 4 Monitor Alarm Syslogd Syslogd Setting Syslogd Message Finance Tools Ping Change Password Eth 1 Syslogd Message Finance Change Password Finance Change Password Finance Syslogd Message	Reboot! Warning!! Reboot will disconnect both ethernet and serial connection. Do you want to Reboot now? Yes

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Step12: Import/Export configuration file

You can Import/Export the serial device server all setting as the ".conf" file format.

(=) @ http://192.168.1.54/cgi-bin/index.cgi			
ADVANTECH ICom	ADVANTECH ICom		
Home Export Configuration File System Ethernet Configuration Peth 1 Peth 2 Port Configuration Port 1 Port 2 Port 3 Port 4 Port 1 Port 2 Port 3 Port 4 Port 4 Port 3 Port 4 Port 4 Po	Home Import Configuration File Import Configuration Import Configuration Import Configuration		

You can change the device server password over here:

If you want to **disable** password protection, just leave the new password column "blank" (not to key-in any value) and press the "Save" button. It would change after reboot the serial device server to make effective.

← → Ø http://192.168.1.54	/cgi-bin/index.cgi	5 - Q	EKI-1524-BE Web Server	× 🥖 EKI-152
ADVINLENT ICOIII				
Home	Change Password			
Ethernet Configuration	New password			
Eth 1	New password again			
Eth 2	Save			
Port Configuration				
Port 1				
Port 2				
Port 3				
Port 4				
Port 1				
Port 2				
Port 3				
Port 4				
Alarm				
Setting				
3 Event				
Syslogd				
Syslogd Setting				
Ping				
Reboot				
Hanagement				
LogFile				
Change Password				
Export				
al Import				

Reference:

EKI-1521_1522_1524_Manual_Ed3.pdf

Contact Window and File Link:

If you have any questions, please contact with local technical support