

Advantech AE Technical Share Document

Date	12/07/2016	Release Note	🗌 Internal 🔳 External		
Category	🗌 FAQ 📕 SOP	Related OS	Windows XP above		
	This document provides step by step process to perform firmware upgrade				
Abstract	or downgrade standa	rd operating proc	edure for Advantech EKI device		
	server by EKI device configuration utility 2.01 or upper version.				
Keyword	Device Server, Modbus Gateway and EKI Utility				
Related Product	EKI-152x, EKI-122x, Eł	EKI-122x, EKI-136x and ADAM-457x			

Problem Description:

In order for our customer to have better experience using our device server, Advantech will update product firmware periodically. Please update the firmware when we publish them on our website.

Brief Solution - Step by Step:

Check items:

1. Check with Advantech technical support on suitable version of firmware before

perform any firmware change.

- 2. Always perform device configuration backup before firmware upgrade.
- 3. If the device is locked, always unlock the device before firmware upgrade.
- 4. Do not power off the device during firmware upgrade.
- 5. Always perform "Restore to Factory Default settings" after firmware upgrade/downgrade.

Topology:







Step 1: Using *EKI Utility* to discover device server

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

File View Management Tools Help						
EKI Device Clear Device List and Search EKI Device Server (2) ADAM-4571L-DE EKI (192.168.200.159) Find Find Port 1 (Serial Port 1) EKI-1524-BE Find EKABLE JIT DIAG	Again ary Sy Basic Inform Type Name T Ethemet Inf	rstem Accessible System nation ADAM-4571L-DE est ormation	Event PortEve Version	mt Mail 1.98	Alert SNMP Trap	Monitor
- In the second	Port	Туре	IP Addre	22	Subnet Mask	Default Gateway
	Eth 1	DHCP + Auto-IP	192.168.	200.159	255.255.255.0	192.168.200.1
- A Favorites	Serial Port I	nformation				
System Serial Ports	Port	Mode	Status	Host IP		
	Port 1	Virtual Com Mode	Idle	None		

Step 2: Check existing firmware version

Left click the EKI device, and double check firmware version of EKI device in *Advantech EKI Device Configuration Utility 2.01*.

🖄 Advantech EKI Device Configuration Utili	ty v2.01				_	
File View Management Tools Help						
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EKI Device EKI Device Server (2) ADAM-4571L-DE Eth 1 (192.168.200.159) Eth 1 (192.168.200.159) Eth 1 (192.168.200.199) Eth 1 (192.168.200.192) Eth 1 (192.168.200.192) Eth 2 (192.168.1.54) Pro View Switch (1) EKI-5729P Eth 2 (192.168.1.54)	Summery Sys Basic Inform Type Name Tec Ethemet Info Port Eth 1	tem Accessible System ation ADAM-4571L-DE st mation Type DHCP + Auto-IP	Event PortEver Version IP Addres 192.168.2	nt Mail A 1.98 s 200.159	Llert SNMP Trap	Monitor Default Gateway 192.168.200.1
	Serial Port In	formation ———				
System Serial Ports	Port	Mode	Status	Host IP		
E Wirtual Com Ports ② Unknow Device	Port 1	Virtual Com Mode	Idle	None		



Step	3: Make sure	the device	IP is under the	same subnet as the PC
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Advantech EKI Device Configuration Utilit File View Management Tools Help	ty v2.01	
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🖃 🚅 EKI Device	Basic	
E- P Serial Device Server (2)	Launch Brows	ær
	MAC Address	00:D0:C9:F5:6B:E8
Port 1 (Serial Port 1)	DHCP + Auto-IP	•
⊟… 📲 EKI-1524-BE ⊡… 📲 ENABLE_JIT_DIAG	Address	192.168.200.159
	Subnet Mask	255.255.255.0
⊡∰ ProView Switch (1)	Default Gateway	192.168.200.1
EKI-5729P	DHCP Advanced Se DHCP Timeout(s)	etting 180
🖃 📲 System Serial Ports	-DNS Setting	
Unknow Device	Automatic	•
	Primary DNS Server	172.20.1.100
	Secondary DNS Serv	/er 192.168.200.1

Step 4: Perform Device configuration backup by using "Export Serial Port Setting"

🔯 Advantech EKI Device	Configuration Util	ity v2.01			
File View Manageme	ent Tools Help				
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EKI Device EXI Device ADAM-4571L-DE Extended Test		Summary System Acce Basic Information Type ADAM-457	ssible System	Event PortEv	vent Mail Alert SNMP Trap Monitor
	Import Device Se Export Device Se Import Serial Port	tting tting : Setting	suto-IP	IP Addr 192.168	ress Subnet Mask Default Gateway 3.200.159 255.255.255.0 192.168.200.1
EKI-572 ■ ■ EKI-572 ■ ■ EKI EKI EKI EKI EKI	Export Serial Port Refresh Data Locate	Setting		(g) b b c	(TT TT
System Seria	Lock Device		om Modo	Idle	None
Unknow Device	Restore to Factory Default Settings Reset Device		om Mode	1016	NOIRE
	Add to Favorite				
	Auto Mapping				
	Manual Mapping	1			
	Update Firmware				



Step 5: Upgrade/Downgrade firmware by right click the EKI device.

Right click the EKI device, and tap "Update Firmware"

File View Manager	nent Tools Help					
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EKI Device Serial Device Server (2) ADAM-4571L-DE Test		Summary System Ac Basic Information Type ADAM-4	scessible System	Event PortEv	vent Mail Alert SNMP	Trap Monitor
EKI-152 ProView Sw Froview S	Import Device S Export Device Se	etting etting		[IP odd)	mer Subnet Mar	h Dafanlt Gataway
	Import Serial Port Setting Export Serial Port Setting Refresh Data Locate		Luto-IP	192.16	8.200.159 255.255.25	5.0 192.168.200.1
				1	1	
	Lock Device	Lock Device Restore to Factory Default Settings Reset Device Add to Favorite		Idle	Host IP None	
Unknow Device	Restore to Facto Reset Device					
	Add to Favorite					
	Auto Mapping					
	Manual Mappin	9				
	Update Firmwar	e				

Step 6: Select the firmware from local PC and click on "**Open**". When firmware upgrade, please do nothing and wait for firmware upgrade/downgrade process complete.

Select the binary image file							x
O ♥ ↓ ADAM-457	71L-DE_D1.98_r3362_578090B4.bin			• • Searc	h ADAM-4571L-l	DE_D1.9.	, p
Organize 🔻 New folder	r						?
☆ Favorites	Name	Date modified	Туре	Size			
Desktop	ADAM-4571L-DE_D1.98_r3362_578090B4.bin	3/11/2014 9:21 AM	BIN File	8,193 KB			
Downloads Recent Places							
increase in the cost							
📜 Libraries							
Documents							
Pictures							
Videos							
💵 Computer							
Local Disk (C:)							
🐧 DVD RW Drive (D							
Shared Folders (\							
🛍 Network 🔻							
File <u>n</u> ar	me: ADAM-4571L-DE_D1.98_r3362_578090B4.bin				s (*.bin)		•
				Ope	en 🔫	Cancel	



If you are doing downgrade to the older version of firmware, a warning message below will show up. Click on "**Yes**" to confirm the downgrade firmware.

warning		×
<u> </u>	You're going to download a previous version of firmware into device. Please backup the device settings before going on. Are you sure to process firmware update?	
	是(Y) 否(N)	

A firmware update window will pop up. Please wait for it to finish.

Firmware Update	
Device Type: ADAM-4571L-DE Device Name: Test IP Address: 192.168.200.159 Device Version:1.98 Firmware Version:1.98	
Updating Firmware (16%)	Cancel

Once finished, click on "Ok" and the device will reboot automatically.

Firmware Update	
Device Type: ADAM-4571L-DE Device Name: Test IP Address: 192.168.200.159 Device Version:1.98 Firmware Version:1.98	
Update Complete	ок

*Notes: Do not power off or do anything at this step until the EKI reboot complete.



Step 7: Always perform "**Restore to Factory Default settings**" after firmware upgrade/downgrade.

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EKI Device EKI Device Se ADAM-457 ADAM-457 EKI-15 EKI-15 EKI-57 EKI-57 EKI-57	rver (2) IL-DE Test Import Device Set Export Device Set Import Serial Port	Summary System Acc Basic Information Type ADAM-45 ting ting Setting	71L-DE Auto-IP	Event PortEve Version IP Addre 192.168	ent Mail Alert SNMP Tr 1.98 ess Subnet Mask 200.159 255.255.255.0	ap Monitor Default Gateway 192.168.200.1
	Export Serial Port Refresh Data Locate	Setting	-			
🕘 Unknow Device	Lock Device			Status	Host IP	
🥝 Unknow Device	Restore to Factor Reset Device Add to Favorite Auto Mapping	/ Default Settings	Com Mode	Idle	None	
	Manual Mapping Update Firmware					

Click "**Yes**" to reset the device setting.





To finalize the factory reset process, you should physically power off and power on the device **within 10 seconds**.

Power off device count down If you want to restore the device setting to default, please power off the device within 10 seconds. After reconnecting the power back, the setting will be reset to the factory default. If the power remains more than 10 seconds, the device will not have any change.						
9 seconds remain	ок					

After that, all configurations will recovery to the default setting.

🖄 Advantech EKI Device Configuration Utility v2.01							
File View Management Tools Help							
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□-e Exist Device Serial Device Server (2) □-e ADAM-4571L-DE □-e ADAM-4571L-DE-F568E8 □-e Eh 1 (10.0.0.1) □-e Port 1	Summary System Accessible System Event PortEvent Mail Alert SNMP Trap Monitor Basic Information Type ADAM-4571L-DE Version 1.98 Name ADAM-4571L-DE-F56BE8						
⊡∦ EKI-1524-BE ⊡∦ ENABLE_JIT_DIAG ⊡∰ ProView Switch (1)	Ethernet Information						
⊡ # EKI-5729P ⊞ # EKI-5729P A Favorites ⊡ Serial Ports ⊞ System Serial Ports	Eth 1	Type Static IP	IP Address 10.0.0.1	3	Subnet Mask 255.0.0.0	Default Gateway	
Virtual Com Ports Unknow Device	Serial Port Information						
	Port Port 1	Mode Virtual Com Mode	Status Idle	Host IP None			

Now, you can configure the device server or import the backup configuration file.

Reference:

EKI-1521_1522_1524_Manual_Ed3.pdf (Ed3)

Contact Window and File Link:

If you have any questions, please contact local support team. You can download this file on www.advantech.tw