## EKI-7700 Series Managed Switch Backup/Upgrade Manager SOP

Backup ManagerUpgrade Manager

Revision Date	Revision	Description	Author
March/2018	V1.0	Initial release	ICG AE Eddie.Wei / Raimen Liu

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#### Abstract

- This SOP explains how to operate *Backup* and *Upgrade Manager* on Advantech EKI-7700 series industrial managed switch.
- Related products:

EKI-7428, EKI-7706, EKI-7708, EKI-7710, EKI-7712, EKI-7716, EKI-7720.

- Requirement: Advantech managed switch, RJ45 ethernet cable, PC
- \* Appendix: Upgrade Firmware & Configuration via CLI w/ TFTP



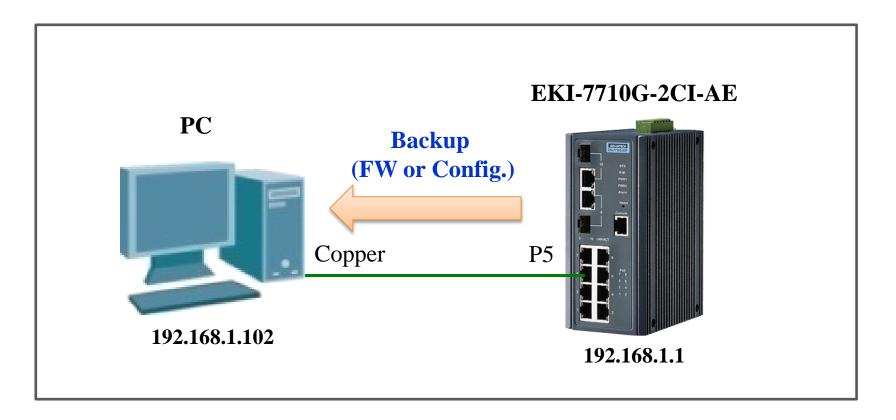


# **Backup Manager**

Backup via HTTPBackup via TFTP



Purpose: Backup device image (or configuration) via HTTPTopology:



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Step 1: Logging the switch with admin/admin as Username/Password by default.

Username		
admin		
Password		
•••••		
	Login	



Step 2: Under <u>Tools -> Backup Manager</u>
 Choose Backup Method as HTTP
 Choose Backup type as Image

<b>ADVANTECH</b>	EKI-7710G-2CI-AE Intelligent Industrial Switch	
🖵 Monitoring		
System	the Device	
	Backup	
✤ MAC Address Table	Backup Method HTTP	
Security	Backup Type 💿 Image	
●) QoS	O Running configuration	
C Management	O Startup configuration For <i>Backup Type</i> desc please refer to the nex	-
<b>Q</b> Diagnostics	O Flash log	tt shue.
🗲 Tools	O Buffered log	
IXM 1	Image O EKI-7710E-2CI-AE-1-00-78.hex (Active)	
Backup Manager	3 O EKI-7710E-2CI-AE-1-00-78.hex (Backup)	
Upgrade Manager	Backup	
Dual Image		

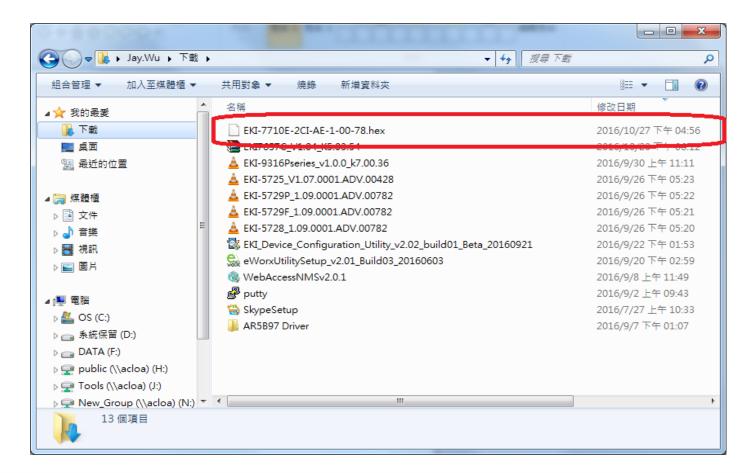
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Backup Types

Backup type	Description
Image	Backup your firmware and output as a XXX.hex file
Running Configuration	Backup Running configuration file
Startup Configuration	Backup Startup configuration file
Flash Log	Backup Flash Log to file
Buffered Log	Backup Buffered Log to file
Image	Description
XXX.hex (Active)	Backup "Active" firmware
XXX.hex (Backup)	Backup "Backup" firmware

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Result: When the download finished, the file would be in your default *Downloads/* directory.



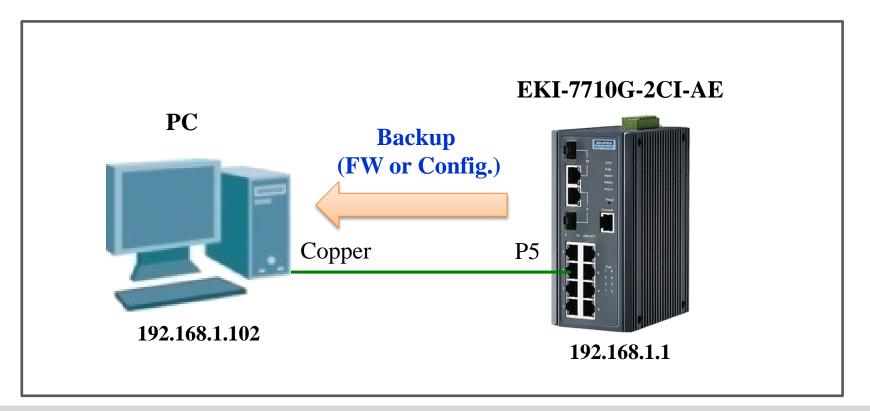
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# **Backup Manager**

Backup via HTTPBackup via TFTP



- Purpose: Backup device image (or Configuration) via TFTP
- Resource requirements: Tftpd 64 <u>http://tftpd32.jounin.net/tftpd32\_download.html</u>
- Topology:





■ Step 1: Run TFTPD64.EXE program on PC.

	rogram Files\Apache		Browse		
Server interfaces 192 Tftp Server Tftp Client	168.1.102	Realtek R1 💌 g viewer	<u>Show D</u> ir	->	TFTP server's IP
peer	file		progress		
•	III		- F		
<u>A</u> bout	<u>S</u> ettings		<u>H</u> elp		



Step 2: Press "Browse" button, and then choose the destination directory you like to save the file.





Step 3: Logging the switch with admin/admin as Username/Password by default.

Username		
admin		
Password		
•••••		
	Login	



- Step 4: Under *Tools -> Backup Manager*
- Choose Backup Method as TFTP
- Input "server IP": X.X.X.X (Your PC IP, ex: 192.168.1.102)
- Choose Backup type as Image

AD\ANTECH	EKI-7710G-2CI-AE Intelligent Industrial Switch		Noted that DC and Societab H
Gamma Monitoring			Noted that PC and Switch II address must the same network
System	<b>#</b> D		segment
	🏟 Backup		segment
✤ MAC Address Table	Backup Method	TFTP	
♥ Security	Z Server IP	192.168.1.102	(IPv4 or IPv6 Address)
♠) QoS	Backup Type	Image	
I Management		O Running configuration	
<b>Q</b> , Diagnostics		O Startup configuration	For Backup Type descriptions,
🗲 Tools		O Flash log	please refer to the previous slide.
IXM 1		O Buffered log	1 1
Backup Manager	Image	• EKI-7710E-2CI-AE-1-00-78.hex (Active)	
Upgrade Manager		O EKI-7710E-2CI-AE-1-00-78.hex (Backup)	
Dual Image	3	Backup	
Save Configuration		))	

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Result: When Backup successful, you will see the firmware file is in the directory.

	Tftpd64 Service Edition by Ph. Jounin			
	Current Directory F:\D_DATA\產品相關新韌體\EK Server interfaces 192.168.1.102 Realtek R			
	Tftp Server Tftp Client Syslog server Log viewer			
c	EKI-7710E-2CI-AE-1-00-78.hex	from		
1	6841856 Bytes rovd 570154 Bytes/sec			
2		🔖 Tftpd64: direct	ory	x
_	Clear     Copy	EKI-7710E-2CI-AE- running-config		10/12 940 3249
	<u>A</u> bout <u>S</u> ettings	-		
		1		
		(Close)	Сору	Explorer

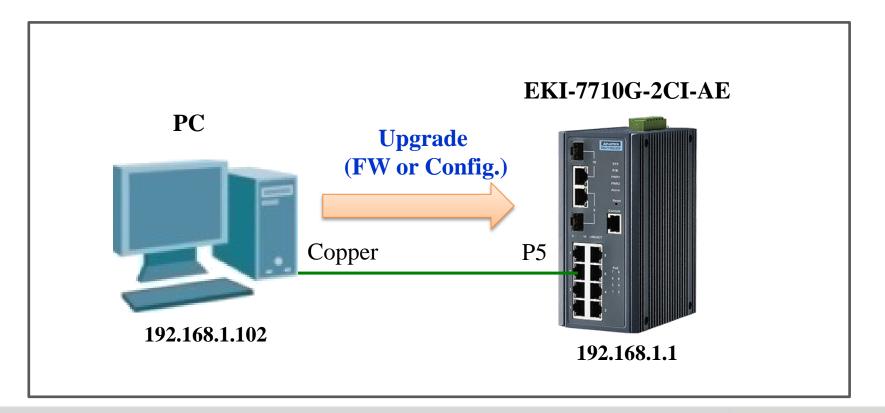


# **Upgrade Manager**

Upgrade via HTTPUpgrade via TFTP



Purpose: Upgrade device image (or configuration) via HTTP
Resource requirements: Firmware (.hex) file
Topology:





Step 1: Logging the switch with admin/admin as Username/Password by default.

Username		
admin		
Password		
•••••		
	Login	



Step 2: Under <u>Tools -> Upgrade Manager</u>
Choose Upgrade Method as HTTP
Choose Upgrade type as Image

AD\ANTECH	EKI-7710G-2CI-AE Intelligent Industrial Switch		
G Monitoring			
🖭 System			
≓ L2 Switching	Upgrade		
𝕎 MAC Address Table	Upgrade Method	TFTP HTTP	
Security	Server IP	Input IP	(IPv4 or IPv6 Address)
•) QoS	File Name	Input file name	
Management	Upgrade Type	• Image	
<b>€</b> Diagnostics		O Startup configuration	For <i>Upgrade Type</i> descriptions, please refer to the next slide.
≁ Tools		O Running configuration	please feler to the next shde.
IXM	Image	• EKI-7710E-2CI-AE-1-00-78.hex (Active)	
Backup Manager 1		O EKI-7710E-2CI-AE-1-00-78.hex (Backup)	
Upgrade Manager		O Auto	
Dual Image		Upgrade	
Save Configuration			

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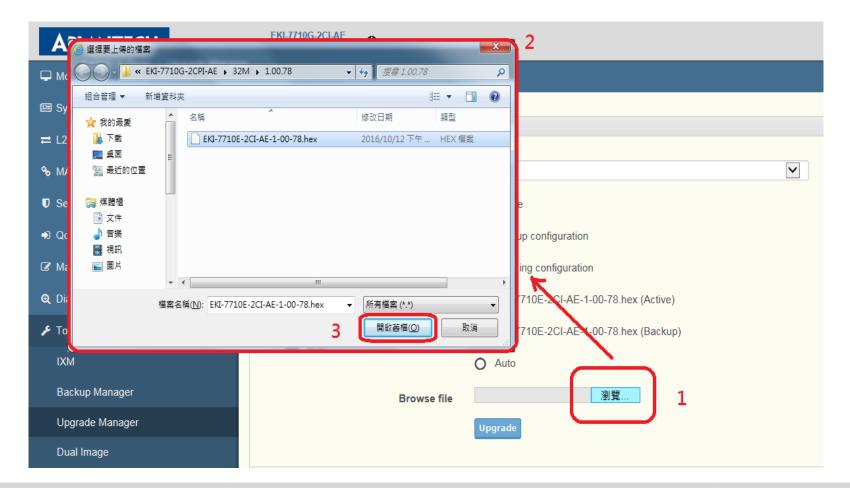
#### Upgrade Types

Upgrade type	Description
Image	Upgrade firmware
Running Configuration	Restore Running configuration file
Startup Configuration	Restore Startup configuration file

Image	Description
X X X hex (Active)	Upgrade new firmware or configuration file to image0
$\mathbf{X} \mathbf{X} \mathbf{X}$ nex (Backlin)	Upgrade new firmware or configuration file to image1
Auto	Upgrade new firmware or configuration file to Backup image and use the partition to boot

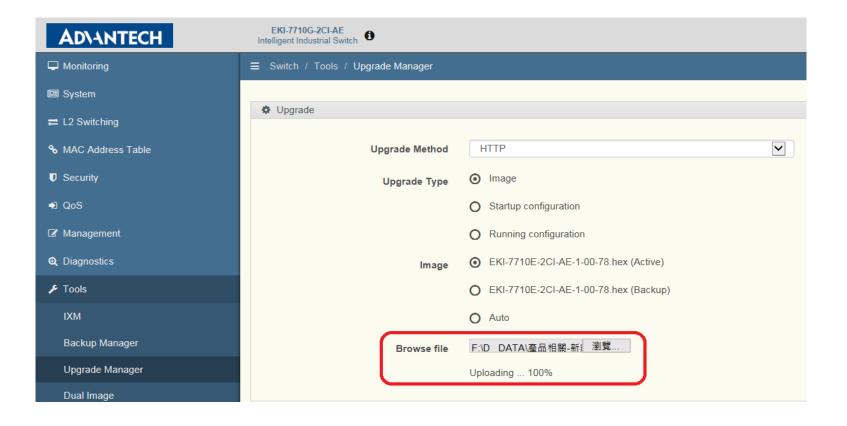
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Step 3: Press "Browse" button, and then choose the firmware name (\*.hex) you would like to use, Then press "Upgrade" button



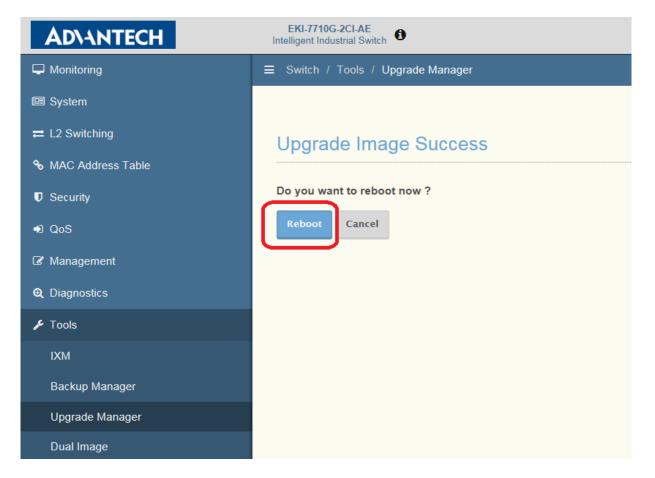


Step 4: Now you will see the upgrade process bar running until 100%





Result: When upgrade successful, the web page will request you press "Reboot" to make new firmware affect.



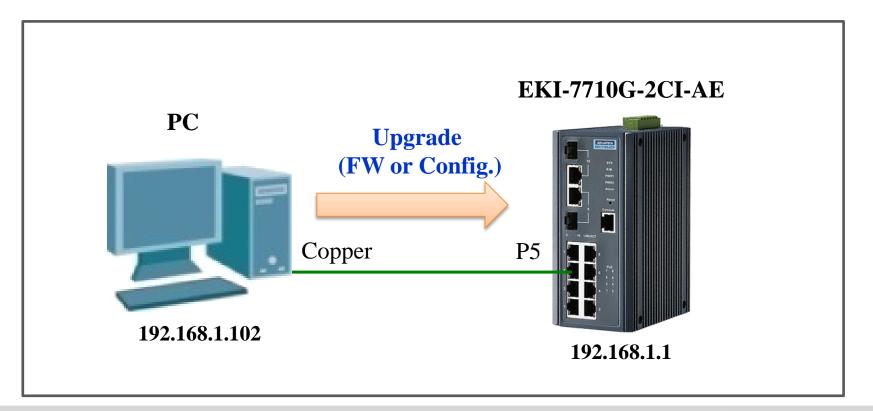


# **Upgrade Manager**

Upgrade via HTTPUpgrade via TFTP



- Purpose: Backup device image (or configuration) via TFTP
   Resource requirements: Firmware (.hex) file, and Tftpd 64 http://tftpd32.jounin.net/tftpd32\_download.html
- Topology:



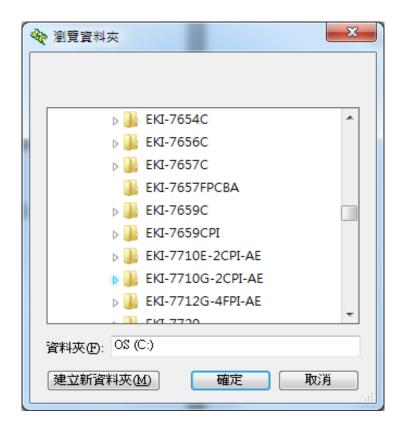


■ Step 1: Run TFTPD64.EXE program on PC.

🗞 Tftpd64 Service Edition by Ph. Jounin		
Current Directory       C:\Program Files\Apache Software F( -       Browse         Server interfaces       192.168.1.102       Realtek R1 -       Show Dir		
Tftp Server Tftp Client Syslog server Log viewer	>	<b>TFTP server's IP</b>
peer file start time progress		
About <u>S</u> ettings <u>H</u> elp		



Step 2: Press *"Browse"* button, and then choose the destination directory where you save the file.





Step 3: Press "Show Dir" button, choose the firmware you like to upgrade, then press "Copy", and then press "Close" button.





Step 4: Logging the switch with admin/admin as Username/Password by default.

Username		
admin		
Password		
•••••		
	Login	



1

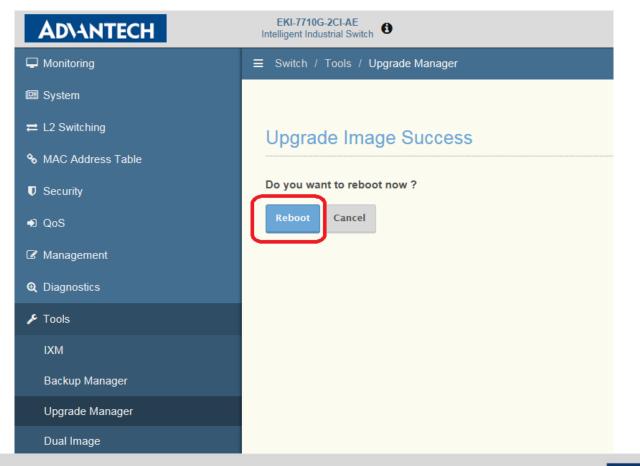
- Step 5: Under *Tools -> Upgrade Manager*
- Choose Upgrade Method as TFTP
- Input "server IP": X.X.X.X (Your PC IP, ex: 192.168.1.102)
- Input "File Name": Input firmware name or Press "Ctrl+V" to firmware file name column.

AD\ANTECH EKI-7710E-2C-AE Intelligent Industrial Switch							
			Noted that PC and Switch IP				
System	# Upgrada		address must the same network				
≓ L2 Switching	Upgrade	segment					
✤ MAC Address Table	Upgrade Method	TFTP					
♥ Security	Server IP	192.168.1.102	(IPv4 or IPv6 Address)				
+) QoS	File Name	EKI-7710E-2CI-AE-1-00-78.hex					
I Management	Upgrade Type	⊙ Image 3.					
<b>Q</b> Diagnostics		O Startup configuration	For Upgrade Type descriptions,				
🗲 Tools		O Running configuration	please refer to the previous slide.				
IXM	Image	• EKI-7710G-2CPI-AE-1-00-87.hex (Backup)					
Backup Manager		O EKI-7710G-2CPI-AE-1-00-97.hex (Active)					
Upgrade Manager		O Auto					
Dual Image		Upgrade					
Save Configuration		<b>4</b> .					

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Result: When upgrade successful, the web page will request you press *"Reboot"* to make new firmware affect.









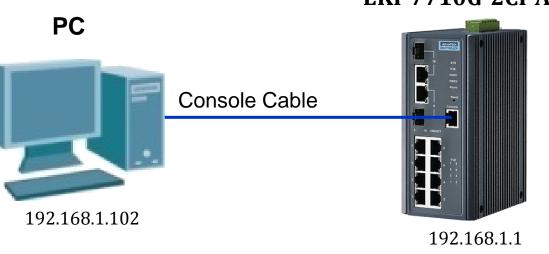
# Appendix

■ Upgrade via CLI w/ TFTP



## **Upgrade via CLI w/ TFTP**

- Purpose: Upgrade device image (or configuration) via CLI with TFTP
- Resource requirements: Firmware (.hex) file, Configuration file, Console cable, and Tftpd 64 (<u>http://tftpd32.jounin.net/tftpd32\_download.html</u>)
- How to select Advantech managed switch console cable: http://support.advantech.com/support/KnowledgeBaseSRDetail\_New.aspx?S
   R\_ID=1- 1IOM96L&Doc\_Source=Knowledge+Base
- Topology:



EKI-7710G-2CI-AE

AD\ANTEC

#### Upgrade via CLI w/ TFTP

■ Step 1: Run TFTPD64.EXE program on PC.

Curre	Tftpd64 Service Edition by Ph. Jounin         Current Directory         C:\Program Files\Apache Software F( < Browse         Server interfaces         192.168.1.102         Realtek R1 < Show Dir									
	Server	Tftp Cl		Syslog server				->	TFT	P server's IP
pee	er			file	start time	e progres:	s			
				111			4			
	<u>A</u> bout			<u>S</u> ettin	gs	<u>H</u> e	lp			



### **Upgrade via CLI w/ TFTP**

Step 2: Press *"Browse"* button, and then choose the destination directory where you save the file.



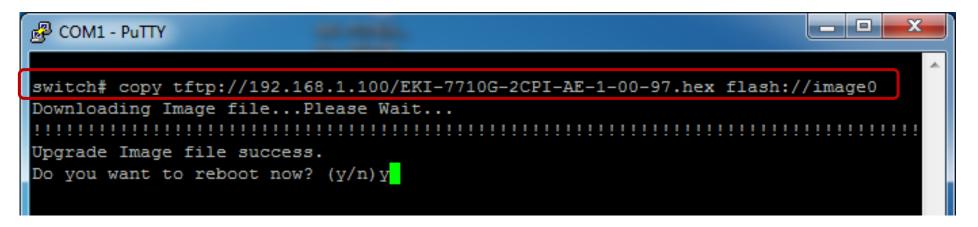


### Upgrade via CLI w/ TFTP (for Firmware)

- Step 3: Connect PC and the switch with corresponding console cable and enter the CLI. (For entering CLI, please refer to the following SOP: <u>http://support.advantech.com/support/KnowledgeBaseSRDetail\_New.asp</u> <u>x?Doc\_Source=Knowledge+Base&SR\_ID=1-1JVZ1H7</u>)
- Type in the following command:

switch# copy tftp://192.168.1.100/EKI-7710G-2CPI-AE-1-00-97.hex/flash://image0

Your full file name





### **Upgrade via CLI w/ TFTP (for Configuration)**

- Step 3: Connect PC and the switch with corresponding console cable and enter the CLI. (For entering CLI, please refer to the following SOP: <u>http://support.advantech.com/support/KnowledgeBaseSRDetail\_New.asp</u> <u>x?Doc\_Source=Knowledge+Base&SR\_ID=1-1JVZ1H7</u>)
  - Type in the following command:

switch# copy tftp://192.168.1.100/startup-config.cfg startup-config

#### Your full file name



