## AD\ANTECH Enabling an Intelligent Planet

## Advantech AE Technical Share Document

Date	2015⁄09/17	SR#	1-2235089308
Category	□FAQ ■SOP	Related OS	N/A
Abstract	ADAM-41XX, How to upgrade the firmware by utility		
Keyword	ADAM-41XX, firmware upgrade, utility		
Related	ADAM-4117, ADAM-4118, ADAM-4150, ADAM-4168		
Product			

#### Problem Description:

This documentation explains the steps to upgrade the firmware to the ADAM-41XX remote I/O module by using AdamApax .NET Utility.

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Brief Solution - Step by Step:

#### 1. Set the ADAM-41XX into the initial mode.

The firmware download procedure is only allowed in the initial mode, so please set the switch on the right-hand side of the module to the "Init" side, and reboots the power of the ADAM to enter the initial mode.



#### 2. Open Adam/Apax .Net utility.

Adam/Apax .Net utility is free software provided by Advantech for the configuration and the I/O test with ADAM remote I/O module.

If you don't have the software or not install the newest version of the software yet, please download the newest version of the utility with the following link.

http://support.advantech.com.tw/Support/DownloadSRDetail\_New.aspx?SR\_ID=1-2AKUDB&Doc\_ Source=Download

#### 3. Search the ADAM-41XX by the utility.

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Select the COM port that connected to ADAM, and right click the COM icon in the utility, then click "Search Device"



The end-device connected to the COM port will show up in the utility, take the following picture as an example, ADAM-4118 is connected to the COM8.

The star sign indicated that the module is in the initial mode.



#### 4. Enter the download mode

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Select the ADAM module from the list and click "F/W Update" button to enter the download mode.

📉 Advantech Adam/Apax .NET Utility (Win32)	Version 2.05.09 (B05)		
File Tools Setup Help			
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Comi     Comi	ADAM-4118 Module setting Data area Address:	a Advanced setup    *01 Hex 1 - Dec	Apply change
10.0.0.168 172.18.3.34 172.18.6.26 Others Favorite Group ⊕ ∰ ADAM4500_5510Series ⊕ ∯ Wireless Sensor Networks	Baudrate: Checksum: Firmware version: Integration time: Comm. WDT: Protocol:	9600 bps	Locat Module Save/Load Configuration Save Load
	Data format: Modbus Only: Thermocouple Mode:	Engineering Unit	

The pop-out window will make sure you want to enter the download mode or not, click yes to continue.

Confirm		x
?	This action will switch th to the download mode,	e module , continue?
	是(Y)	否(N)

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#### 5. Download the firmware file.

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Search the module again after it enter the download mode.



You'll see the product number becomes "41XX", which indicates the module enter the download mode sucessfully.



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Click the "Open file" button and select the new version of firmware that you would like to upgrade. Please note that the file should be in "\*.hex" format.

💊 Advantech Adam/Apax .NET Utility (Win32) Version 2.05.09 (B05)				
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□       Serial         □       COM1         □       COM3         □       COM8         □       0         0       0.0.0.168         172.18.3.34         172.18.6.26         0       Others         ■       Favorite Group	ADAM-41XX Down Module: Firmware version: Baudrate:	nload ADAM-4118 180600 9600 bps	Switch to Normal	
<ul> <li>□- <sup>™</sup>/<sub>♥</sub> ADAM4500_5510Series</li> <li>⊡- <sup>™</sup>/<sub>♥</sub> Wireless Sensor Networks</li> </ul>	Download file:		Open file Download	
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Click the "Download" button to download the firmware to the module.

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ADAM-41XX Down	nload	Switch to Normal	
Module:	ADAM-4118		
Firmware version:	180600		
Baudrate:	9600 bps 💌		
Download file:	C:\Users\luke.cheng\Desktop\A4118A11	Open file	
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	$\sim$		

#### 6. Check the firmware is upgraded successfully.

After the downloading procedure, the module will be set to the initial mode again.

Please use the utility to search the module again, you could also check whether the firmware is upgraded or not by the firmware version information in the utility.

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File Tools Setup Help		
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Serial COM1 COM3 COM8 COM8 COM8 COM8 COM8 COM8 COM8 COM8	ADAM-4118 Module setting Data area Advanced setup   Address: #01 Hex 1 = Dec Baudrate: 9600 bps • Checksum: Enabled Firmware version: A1.11 F/W Update Integration time: 10 ms High Speed • Comm. WD T: 0 Sec (0.0-999.9) Protocol: Modbus • Data format: Engineering Unit • Modbus Only: None Parity, 8 Bits, 1 Stop • Thermocouple Mode: Normal Mode •	Apply change Locat Module Save/Load Configuration Save Load