

FAQ: Using AMCI's Device Firmware Update utility

All AMCI E2 Network Products can have their firmware updated using the following procedure after connecting the device to the Ethernet port of your PC.

This procedure can be used with the following AMCI Model Numbers: SD17060E2, SD31045E2, SD4840E2, SMD17E2, SMD23E2, SMD24E2, SMD34E2, SV160E2, SV160E2-STO, and NR60E2.

This update will only work with units that have a serial number greater than 03200001.

The SD and SMD motion produts must have a network firmware revision of 1.30 or above and the NR60E2 must have a firmware revision of 1.21 or above.

Please contact AMCI for information on updating older products.



The following steps and image were created using a PC running Windows 7. Other versions of Windows may have slightly different steps or appearance.

Step 1: Enable the TFTP Client on your computer (this step will only need to be performed once)

- 1. Open your PC's Control Panel.
- 2. Select Programs.
- 3. Select Programs and Features.
- 4. Select Turn Window Features On and Off.
- 5. Scroll down and place a check mark in the box next to TFTP Client.



6. Click on OK to accept the changes.



Step 2: Download and Install the AMCI Device Firmware Update utility from the following page of AMCI's website.

https://www.amci.com/industrial-automation-support/software/

Step 3: Make the following temporary changes to your PC's settings

- 1. Temporarily <u>disable</u> the firewall on your PC.
- 2. Disable all additional Network Ports, including all Wireless Ports.

Step 4: Verify that your PC is on the same Ethernet subnet as the device that you are updating!

Step 5: Copy the new AMCI firmware file to a directory on your PC

The new network firmware file will have the following format.

PCxxNyyyAzzz-Product_Name.amci

Step 6: Run the Device Firmware Update utility. The following window will open.

	Device Firmware	e Update
Connect IP Address:	192.168.0.50 Device	Identity
Disco	nnected s Control	
Settings		-
Settings		• Select File
Settings	rill only occur if the PC's firewall o x to verify that you have complet	Select File ptions have all been disabled. ely disabled the firewall.
Settings The update w Check this box Update	ill only occur if the PC's firewall o x to verify that you have complet Write Firmwa	The select File Select File Select File Select File Select File Select Here and Select



Step 7: Enter the IP address of the device being updated and click on the Connect button. As shown in the following image, the devices information will appear in the Device Identity panel.

AMCI - Device Update Utility Ver. 1	1.15	
AMCI M Device Fir	DVANCED ICRO CONTROLS INC. mware Update	IP address of device being updated
Connect IP Address: 192.168.0.50 Disconnect Connected Computer control 1. The device is connected. 2. The connection is to IP addr 3. Select file.	Product Name: SMD23E2avB Product Type: 0C Product Code: 1D Serial Number: 11607009 Network Firmware Rev: 1.30 Application Firmware Rev: 1.8 Network Protocol: Ethernet/IP	— Device Identity Panel
Settings	C's firewall options have all been disabled. ave completely disabled the firewall.	
F/W Update Information	e Firmware	
	www.amci.com	



Step 8: Click on Select File and browse to the directory where you saved the AMCI update file.

Step 9: Place a check mark in the box to confirm that you have disabled your PC's firewall. The transfer will not occur if the firewall has not been disabled.

AMCI - Device Update Utility Ver. :	1.15	
AMCI M Device Fir	DVANCED IICRO CONTROLS INC.	
Connect	intere openie	
IP Address: 192 168 0 50	Product Name: SMD23E2avB	
	Product Type: 0C	1
Disconnect	Serial Number: 11607009	
Connected	Network Firmware Rev: 1.30	Follow the instructions in the
Computer control	Network Protocol: Ethernet/IP	red text of this middle panel
5. Check the box to verify that 6. The Firewall is disabled. 7. Press the 'Write Firmware' bu	you have disabled the firewall.	— Selected Update File
PC1DN130A10B-SMD23E2.amc	Select File	
The update will only occur if the P Check this box to verify that you h	C's firewall options have all been disabled. ave completely disabled the firewall.	
Update Write	e Firmware	
F/W Update Information	*	Check box to confirm that the firewall is disabled
	www.amci.com	J



Step 10: Click on the Write Firmware button and confirm that the desired transfer is to occur.

<u>Note</u>: The NR60E2 has only Application Firmware and the current and new network firmware revision will always be 0.0.

AMC	I - Device Update Utility Ver. 1	.15		
e		DVANCED ICRO CONTRO	LS INC.	
	Device Fir	mware Update	e	
	IP Address: 192.168.0.50 Product Name: Product Type:		SMD23E2avB	
	Disconnect	Product Code: 1D Serial Number: 11	607009	
	Connected Computer control	Network Firmware Rev: 1.30 Application Firmware Rev: 1.8 Network Protocol: Ethernet/IP		
Confirmation	ile selected heck the box to verify that write Firmware' h	you have disabled the	firewall.	
A change will be made.			•	
Current Network Firmware Revision: 1.30 New Network Firmware Revision: 1.30 Current Application Firmware Revision: 1	0B-SMD23E2.amc will only occur if the Pi ox to verify that you ha	i C's firewall options have al ave completely disabled th	Select File been disabled. e firewall.	
New Application Firmware Revision: 1.8	Write	e Firmware		
OK Can	cel Information		*	
			*	
			www.amci.com	

Step 11: The transfer will take about 20 seconds.

When it is complete, a pop up window asking you to cycle power to the AMCI device will appear.



The AMCI device will remain in update mode, which will be indicated by the Network Status (NS) LED blinking red at 1Hz, if the file transfer does not run to completion. It will remain in this mode, and it will not be possible to communicate with the device, <u>even if power is cycled</u>, until the new firmware has been sent to the unit.

The red text in the middle panel of the update software will provide step by step instructions for flashing a unit that is already in update mode.



AMCI - D	evice Update Utility Ver. :	DVANCED	SINC.
	Device Fir	mware Update	
Connect IP Addr	Connect IP Address: 192.168.0.50 Product Name: SMD231 Product Type: 0C Disconnect Product Code: 1D		23E2avB
	Connected	Serial Number: 11607009 Network Firmware Rev: 1.30 Application Firmware Rev: 1 R	
C	omputer control	Network Protocol: E	thernet/IP
Please cycle power to the Al	MCI unit.	d successfully.	▼ Select File
Check	r if the P this box to verify that you h	C's firewall options have all b ave completely disabled the f	een disabled. irewall.
. Update	Write	e Firmware	
Packet: Packet: Packet: Done: C	s: 1791, Bytes: 916992 s: 1792, Bytes: 917504 s: 1793, Bytes: 917504 DK		• •
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Step 12: Cycle power to the unit.

Step 13: Re-enable the PC's disabled network port(s) and the firewall.

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