



Note No. TE-026

ASI In-Field Flash Programmer software, FlashDev.exe, allows our users to upgrade the firmware in the ASIC/1-8655, ASIC/1-6000, and ASIC/2-7540 controllers over the RS-485 communication bus.

Install FlashDev

Install the ASI In-Field Flash Programmer, FlashDev.exe. Unzip the file, FlashDev.zip into c:\ (root). It will automatically create the folder C:\ASI\FlashDev\ and unzip the necessary files. This needs to be done once unless we update the program..

Copy Hex File

Copy the latest firmware zip file, into the folder C:\ASI\FlashDev\ . Unzip the firmware Hex file into the FlashDev folder. For ASIC/1-8655 the file name is 655axxx.hex, for ASIC/1-6000 the file name is 600axxx.hex, and for ASIC/2-7540 the file name is 754axxx.hex, where xxx represents the version number, for example, 17b, 01f, etc.

Flash Download

Start FlashDev.exe. FlashDev.exe expects to run from and find its files in c:\ASI\FlashDev\.

🧇 ASI In-Field Flash Prog	ammer		×
Flash Device: Device Address: Serial Port:	ASIC/1-8655 18655 Device List COM1	 9600 baud 19200 baud 38400 baud 	
Binary Flash Archive:	C:\ASI\FlashDev\655a17b.hex CRC-8		[]
	Load Binary Flash Archiv	'e	
	U <i>7</i> 6		
			v
	Go Abort		0

Select Product

Select the Product to be downloaded.

_
 9600 baud 19200 baud 38400 baud

Set the COM Port, Device Address, and Baud Rate.

To find the COM port, Device Address and Baud Rate; establish communication with the controller with Expert .. Close Expert

Select Hex file

Select the firmware Hex file to be downloaded.

Load 8051 In	nage	? X
Look jn: 🔀)FlashDev 🔽 🖛 🖻 💣 🎟	
Counds 🚞		
🔟 600a01n.h	hex	
655a17b.t	hex	
1544001-re		
File <u>n</u> ame:		en
Files of type:	Intel 8051 HEX Files (*.hex)	icel
	C Open as <u>r</u> ead-only	1.

Go

Press Go to start the download. FlashDev then downloads the file to the controller. .

🧇 ASI In-Field Flash Prog	ammer		×
Flash Device: Device Address: Serial Port:	ASIC/1-8655 18655 Device List COM1 •	 9600 baud 19200 baud 38400 baud 	
Binary Flash Archive:	C:\ASI\FlashDev\655a17b.hex CRC8 = ae hex		[]
	SENT 1664/25067 BYTES 6%		
09/22/04 11:32:59 FLASHIN	G ASIC/1-8655 @ 18655		A
6.4 seconds	Go Abort		0

The status bar shows the progress in yellow and turns green when Flash Programming is Complete. An ongoing log of each session is kept in the text window and to C:/ASI/FlashDev/FlashDev.log. This file is cleared each time Flash Dev is started.

*** FLASH PROGRAMMING COMPLETE ***	
100%	
09/22/04 12:00:58 *** FLASH PROGRAMMING COMPLETE *** 09/22/04 12:00:34 FLASHING ASIC/1-8655 @ 18655	*

When successful, the controller goes to run mode, and the power LED comes on steady. The controller is now programmed with the new firmware.

Close FlashDev by clicking the x in the upper right corner and reopen Expert.

Device List

A list of device addresses can be entered for "batch processing". Select Device List to specify a list of controllers. Each entry is separated by <Enter>. You may copy and paste the list from a text document.

Flash Address List	×
18653 18654 18655 18656	*
Enter ano da úso oddreso por li	T
Enter one device address per i	ne
Go Abort	

If one or more addresses in the list fail to complete, they are added to a retry list which pops up automatically after the original list has been processed.

🧼 ASI In-Field Flash Programmer		×
Flash Device: ASIC/1-8655 Device Address: 18656 Device Lis Serial Port: COM1 💌	Retry 3 Failed Devices 18653 18654 18656	×
Binary Flash Archive: C:\ASI\FlashDev\655a17t CRC8 = ae f		
COM1: PORT INITIA		-
09/22/04 11:44:20 COM1: PORT INITIALIZE ERROR 09/22/04 11:44:20 FLASHING ASIC/1-8655 @ 18656 09/22/04 11:44:19 *** FLASH PROGRAMMING COMPLI 09/22/04 11:43:55 FLASHING ASIC/1-8655 @ 18655 09/22/04 11:43:54 COM1: PORT INITIALIZE ERROR 09/22/04 11:43:54 FLASHING ASIC/1-8655 @ 18654 09/22/04 11:43:53 COM1: FLASH INITIALIZE ERROR 09/22/04 11:43:47 FLASHING ASIC/1-8655 @ 18653 09/22/04 11:33:26 *** FLASH PROGRAMMING COMPLE	Enter one device address per line Go Abort	
0.0 seconds Go	Abort	

Sounds

Sound files are kept in subfolders ..\Sounds\9600, etc. You may choose to play sounds by clicking on the icon in the lower right corner.



Software Versions

2004-09-21 FlashDev.exe 1.0.5.0

- o Automatically sets Flash Enable before download for ASIC/1-8655 and ASIC/1-6000
- o Logs progress to C:/ASI/FlashDev/FlashDev.log
- o Adds ability to upgrade a List of controllers Retry those that failed.
- Adds Command Line Arguments for batch file
 C:/ASI/FlashDev/FlashDev.exe \$Product \$address \$MyBaudRate \$HexFile

2004-07-29 FlashDev.exe 1.0.4.0

- o Adds support for 7540 controller.
- o Works under Win-XP, Win-2000. Not Supported Win-NT, Win98, Win95

2003-06-23 FlashDev.exe 1.0.0.4

o Adds support for 6000 controller.

2002-06-05 FlashDev.exe 1.0.0.1

o Flash Download 8655 controller.

If you have any further questions please contact: ASI Controls Technical Support@asicontrols.com, or call 925-866-8808