FPGA firmware update

This document will help you upgrade the FPGA firmware for the OneChipBook-12.

1. Tools/Software Required

- A personal computer with Windows 7/10 and a USB port
- USB Blaster
- Quartus ii Programmer (9.0-13.1)
- USB-Blaster_driver
- 2. Connect your OneChipBook to your personal computer using a USB Blaster cable.





- 3. Install the USB Blaster driver (skip this step if already installed).
- 4. Open Quartus II Programmer (13.1) and configure the software as shown in the image below. And click the add file button.



W Quartus I	I Programmer - [Ch	nain1.cdf*]					×							
File Edit Options Processing Help														
🚑 Hardware Setup USB-Blaster [USB-0]				Mode: Active Serial Programming 💌 Pr	ogress:	0%								
🗂 Enable real-ti	ime ISP to allow backgr	ound programming (for MAX	JTAG In-Socket Programming Passive Seriel											
📕 Start	File	Device	Checksum	Userce Active Serial Programming Bla	ank- leck Examine	Security Bit	Erase							
🖬 Stop														
Auto Detec	t													
X Delete														
🔑 Add File	\supset													
🞬 Change File	e													
Save File														
🔗 Add Device	e													
📌 Up														
📣 Down														

5. Find and select your firmware file.

						_		×
		Mode: Active	Serial Programming	, •	Progress:		0%	
mming (for MAX II d	levices)							
Device	Checksum	Usercode	Program/ Configure	Verify	Blank- Check	Examine	Security Bit	Eras
. EPCS4	0308DC33	00000000		KKK				

6. Ensure the OneChipBook is powered On.



7. Click the Start button, Until prompted to download completed



Suggested Reference Material

- Intel® FPGA Download Cable User Guide
- OneChipBOOK-12 Technical_Reference (http://www.8086cpu.com/static/upload/file/20250318/1742232699212994.pdf)