Engbedded Atmel AVR® Fuse Calculator

Device selection

Select the AVR device type you want to configure. When changing this setting, default fuse settings will automatically be applied. Presets (hexadecimal representation of the fuse settings) can be reviewed and even be set in the last form at the bottom of this page.

AVR part name: ATmega32A Select (141 parts currently listed)

Feature configuration

This allows easy configuration of your AVR device. All changes will be applied instantly.

Features
Ext. Clock; Start-up time: 6 CK + 0 ms; [CKSEL=0000 SUT=00]
☐ Brown-out detection enabled; [BODEN=0]
Brown-out detection level at VCC=2.7 V; [BODLEVEL=1]
☐ Boot Reset vector Enabled (default address=$0000); [BOOTRST=0]
Boot Flash section size=2048 words Boot start address=$3800; [BOOTSZ=00] ; defaul
☐ Preserve EEPROM memory through the Chip Erase cycle; [EESAVE=0]
☐ CKOPT fuse (operation dependent of CKSEL fuses); [CKOPT=0]
☑ Serial program downloading (SPI) enabled; [SPIEN=0]
☐ JTAG Interface Enabled; [JTAGEN=0]
☐ On-Chip Debug Enabled; [OCDEN=0]

Apply feature settings

Manual fuse bits configuration

This table allows reviewing and direct editing of the AVR fuse bits. All changes will be applied instantly.

Note: ☐ means unprogrammed (1); ☑ means programmed (0).

Bit	*Low*	*High*
7	☐ **BODLEVEL** Brown out detector trigger level	☐ **OCDEN** Enable OCD
6	☐ **BODEN** Brown out detector enable	☐ **JTAGEN** Enable JTAG
5		☑ **SPIEN** Enable Serial programming and Data Downloading
4		
3	☑ **CKSEL3** Select Clock Source	☐ **EESAVE** EEPROM memory is preserved through chip erase
2	☑ **CKSEL2** Select Clock Source	☑ **BOOTSZ1** Select Boot Size
1	☑ **CKSEL1** Select Clock Source	☑ **BOOTSZ0** Select Boot Size
0	☑ **CKSEL0** Select Clock Source	☐ **BOOTRST** Select Reset Vector

Apply manual fuse bit settings

Current settings

These fields show the actual hexadecimal representation of the fuse settings from above. These are the values you have to program into your AVR device. Optionally, you may fill in the numerical values yourself to preset the configuration to these values. Changes in the value fields are applied instantly (taking away the focus)!

Low	*High*	*Action*	*AVRDUDE arguments*
0x C0	0x D9 *	Apply values Defaults Apply manual changes to the values on the left side, or load factory default values for the selected device.	-U lfuse:w:0xc0:m -U hfuse:w:0xd9:m Select (try triple-click) and copy-and-paste this option string into your avrdude command line. You may specify multiple -U arguments within