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: ATmega328P ▼ Select (141 parts currently listed)

| Feature configuration

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

Features				
Ext. Crystal Osc.; Frequency 8.0- MHz; Start-up time PWRDWN/RESET: 16K CK/14 C				
Clock output on PORTB0; [CKOUT=0]				
Divide clock by 8 internally; [CKDIV8=0]				
■ Boot Reset vector Enabled (default address=\$0000); [BOOTRST=0]				
Boot Flash section size=1024 words Boot start address=\$3C00; [BOOTSZ=01]				
Preserve EEPROM memory through the Chip Erase cycle; [EESAVE=0]				
☐ Watch-dog Timer always on; [WDTON=0]				
Serial program downloading (SPI) enabled; [SPIEN=0]				
Debug Wire enable; [DWEN=0]				
Reset Disabled (Enable PC6 as i/o pin); [RSTDISBL=0]				
Brown-out detection level at VCC=2.7 V; [BODLEVEL=101] ▼				

| Manual fuse bits configuration

Apply feature settings

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).

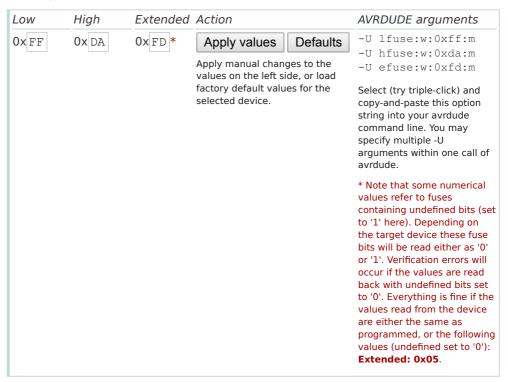
Bit	Low	High	Extended
7	CKDIV8 Divide clock by 8	RSTDISBL External reset disable	
6	CKOUT Clock output	DWEN debugWIRE Enable	
5	Sutt1 Select start-up time	SPIEN Enable Serial programming and Data Downloading	
4	Select start-up time	WDTON Watchdog Timer Always On	
3	CKSEL3 Select Clock Source	EESAVE EEPROM memory is preserved through chip erase	
2	CKSEL2 Select Clock Source	❷ BOOTSZ1 Select boot size	BODLEVEL2 Brown-out Detector trigger level
1	CKSEL1 Select Clock Source	BOOTSZ0 Select boot size	■ BODLEVEL1 Brown-out Detector trigger level
0	CKSEL0 Select Clock Source	■ BOOTRST Select reset vector	BODLEVELO Brown-out Detector trigger level

Current settings

Apply manual fuse bit 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)!



References

All information based on database **ATmega328P.xml** build **1**. Unreviewed original XML backend database from Atmel. Probably buggy! Please report.