Engbedded Atmel AVR® Fuse Calculator

| Device selection | | | | |
|---|---|--|--|--|
| elect the AVR device type you want to configure. st form at the bottom of this page. | When changing this setting, default fuse setting | s will automatically be applied. Presets (hexadecimal representation of the fuse | settings) can be reviewed and even be set in the | |
| /R part name: ATmega168 | Select (141 parts cu | urrently listed) | | |
| Feature configuration | | | | |
| is allows easy configuration of your AVR device. | All changes will be applied instantly. | | | |
| eatures | | | | |
| Ext. Crystal Osc.; Frequen | cy 8.0- MHz; Start-up time F | PWRDWN/RESET: 16K CK/14 CK + 0 ms; [CKS | SEL=1111 SUT=01] 🗘 | |
| Clock output on PORTB0; [CKOU | T=0] | | | |
| Divide clock by 8 internally; [CK | DIV8=0] | | | |
| Brown-out detection leve | l at VCC=1.8 V; [BODLEVEL= | =110] \$ | | |
| ✓ Preserve EEPROM memory throu | ugh the Chip Erase cycle; [EESAVE=0] | | | |
| Watch-dog Timer always on; [W | | | | |
| Serial program downloading (S | | | | |
| Debug Wire enable; [DWEN=0] | | | | |
| Reset Disabled (Enable PC6 as i | /o pin); [RSTDISBL=0] | | | |
| Boot Reset vector Enabled (def | ault address=\$0000); [BOOTRST=0] | | | |
| Boot Flash section size=1 | 024 words Boot start addre | ess=\$1C00; [BOOTSZ=00] ; default value 🗘 | | |
| | | | Apply feature settings | |
| Manual fuse bits configurati | | | Apply reactine sectings | |
| | ne AVR fuse bits. All changes will be applied instar ns programmed (0). | ntly. | | |
| Bit Low | High | | Extended | |
| CKDIV8 | RSTDISBL | | | |
| Divide clock by 8 | External reset disable | | | |
| CKOUT Clock output | DWEN debugWIRE Enable | | | |
| ☑ SUT1 | SPIEN | | | |
| Select start-up time | Enable Serial programming and Data Do | wnloading | | |
| SUTO Select start-up time | WDTON Watchdog Timer Always On | | | |
| CKSEL3 | ✓ EESAVE | | | |
| Select Clock Source | EEPROM memory is preserved through cl | hip erase | _ | |
| CKSEL2 Select Clock Source | BODLEVEL2 Brown-out Detector trigger level | | BOOTSZ1 Select boot size | |
| CKSEL1 | BODLEVEL1 | | ☑ BOOTSZ0 | |
| Select Clock Source | Brown-out Detector trigger level | | Select boot size | |
| CKSEL0 Select Clock Source | BODLEVELO Brown-out Detector trigger level | | BOOTRST Select reset vector | |
| Current settings | | Арр | y manual fuse bit settings | |
| nese fields show the actual hexadecimal represer | ntation of the fuse settings from above. These are te fields are applied instantly (taking away the focu | the values you have to program into your AVR device. Optionally, you may fill in us)! | the numerical values yourself to preset the | |
| Low High Extended Action | | AVRDUDE arguments | AVRDUDE arguments | |
| DxDF 0xD6 0x00 App | ply values Defaults | -U lfuse:w:0xdf:m -U hfuse:w:0xd6:m -U | efuse:w:0x00:m | |
| Apply ma | | Select (try triple-click) and copy-and-paste this option d factory default values specify multiple -U arguments within one call of avrdu | | |
| | | | | |

References

All information based on database **ATmega168.xml** build **201**.
Unreviewed original XML backend database from Atmel. Probably buggy! Please report.

No responsibility is taken for the correctness of the presented information. Copyright © 2006-2011 Mark Hämmerling. This is a free service of Engbedded. Use at your own risk. User interface version: 0.9.0.

If you find bugs in the user interface or the database backend(s), please report them.

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