

ds30 Loader
Console manual

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Introduction

ds30 Loader

ds30 Loader is an open source bootloader for PIC18, PIC24, dsPIC families of MCUs from Microchip. It supports all devices in each family out of the box (those in production), only minor adjustments need to be done in firmware. The firmware is written in asm/asm30 and comes with a preconfigured MPLAB-project. The GUI is written in C#.

Prerequisites and Requirements

.NET framework 2.0 or Mono

Trademarks

All rights to copyrights, registered trademarks, and trademarks reside with their respective owners.

Usage

Usage syntax

The syntax is:

```
ds30loaderconsole options
```

Options summary

When unknown option or illegal option value is detected, the download is aborted.

Short optionname	Long optionname	Description
-f=filename	--file=filename	Hex-file
-d=device	--device=devicename	Devicename
-k=portname	--port=portname	Portname
-r=baudrate	--baudrate=baudrate	Baudrate
-h	--help	Display help
-l	--debugmode	Debugmode
-o	--non-interactive	Starts download without user interaction
-p	--write-program	Download program
-e	--write-eprom	Download eeprom
-c	--write-configs	Download configs
-g	--no-goto	Don't write goto to bootloader
-a=time	--polltime=polltime	Polltime [ms], default is 100
-t=time	--timeout=timeout	Time before timeout [ms], default is 5000
-q=cmd	--reset-command=cmd	Reset device by specified command
-u=baudrate	--reset-baudrate=br	Baudrate for reset command
-m	--reset-dtr	Reset device by dtr
-n	--reset-rts	Reset device by rts
-b=time	--resettime=time	Resettime [ms]
-i	--activate-dtr	Activate device by dtr
-j	--activate-rts	Activate device by rts

Return value

0 is returned after a successful download, else -1.

Examples

Windows

```
ds30loaderconsole --file=d:\serlcd.hex --device=pic18f2550 --port=com1  
--baudrate=115200 --write-program
```

Linux

```
./ds30loaderconsole  
-p -f=serlcd.hex "-q=a;b" -d=pic18f2550 -=/dev/ttyUSB0 -r=11520
```