

USBurn Mac

Version 1.0



Contents

- System requirements
- Dependencies
- Supported usburn functions
- Currently unsupported functions
- Known issues
- Supported PICs
- Credits

System requirements

Mac OS X 10.6 or 10.7 on an intel-based system.

Dependencies

USBurn requires libusb to be installed, you can install it via the installer included with this bundle, or via macports.

-Installing with the included installer:

Just double click the installer icon and follow the instructions.

-Installing via macports:

1. Download and install macports from <http://www.macports.org/>
2. Open Terminal and execute the following command:

```
sudo port install libusb-compat +universal
```

**The +universal option is not necessary in i386 systems.*

Supported usburn functions

-Identify PIC in programmer

Auto detects and displays PIC type.

Command line match: usburn -a

-Remove CP

Remove code protection from PIC.

Command line match: usburn --remove

-Erase PIC

Erases PIC.

Command line match: usburn --erase

-Blank Check

Check if the PIC is blank.

Command line match: usburn --blank

-Compare PIC with HEX-File

Compare PIC-content with HEX-file.

Command line match: usburn --compare --IN [sourceHexPath]

-Read From PIC into new HEX-File

Read PIC-content into HEX-file.

Command line match: usburn --read --OUT [targetHexPath]

-Target: Run

Activate Vdd for target-PIC.

Command line match: usburn --run

-Reanimate PIC

Reanimates a PIC, that doesn't react anymore (use with caution).

Command line match: usburn --reanimate

-Write HEX-File into PIC

Writes HEX into PIC memory.

Command line match: usburn --write --IN [sourceHexPath]

Currently unsupported functions

This functions will be supported in future versions of USBurn Mac:

-Switch programmer into bootloader-mode

Command line match: usburn --boot

-Deactivate bootloader-mode

Command line match: usburn --normal

-Update firmware

Command line match: usburn --firmware --IN [firmwareFile]

-Calibration

Command line match: usburn --calibration

-Interactive test of the hardware

Command line match: usburn --test

Known issues

The command output is not updated until the task is finished. Although this doesn't directly affect in functionality, it isn't the expected behavior.

Supported PICs

supported members of PIC/dsPIC -series

-- PIC-database V.28 (30/05/2011)

Name	Pins	Prog [kB]	EEPRM [B]	TMR	ECCP /CCP	PWM mot	UART /SPI	SSP I2C	CAN	USB	ADC	IO- Pins
10F200	6	-	-	1	-	-	-/-	-/-	-	-	-	4
10F202	6	-	-	1	-	-	-/-	-/-	-	-	-	4
10F204	6	-	-	1	-	-	-/-	-/-	-	-	-	4
10F206	6	-	-	1	-	-	-/-	-/-	-	-	-	4
10F220	6	-	-	1	-	-	-/-	-/-	-	-	2	4
10F222	6	-	-	1	-	-	-/-	-/-	-	-	2	4
12F508	8	-	-	1	-	-	-/-	-/-	-	-	-	6
12F509	8	1	-	1	-	-	-/-	-/-	-	-	-	6
12F510	8	1	-	1	-	-	-/-	-/-	-	-	3	6
12F519	8	1	64	1	-	-	-/-	-/-	-	-	-	6
16F54	18	-	-	1	-	-	-/-	-/-	-	-	-	12
16F57	28	2	-	1	-	-	-/-	-/-	-	-	-	20
16F59	40	2	-	1	-	-	-/-	-/-	-	-	-	32
16F505	14	1	-	1	-	-	-/-	-/-	-	-	-	12
16F506	14	1	-	1	-	-	-/-	-/-	-	-	3	12
16F526	14	1	64	1	-	-	-/-	-/-	-	-	3	12
12F609	8	1	-	2	-	-	-/-	-/-	-	-	-	6
12F615	8	1	-	3	1	1	-/-	-/-	-	-	4	6
12F617	8	3	-	3	1	1	-/-	-/-	-	-	4	6
12F629	8	1	128	2	-	-	-/-	-/-	-	-	-	6
12F635	8	1	128	2	-	-	-/-	-/-	-	-	-	6
12F675	8	1	128	2	-	-	-/-	-/-	-	-	4	6
12F683	8	3	256	3	1	1	-/-	-/-	-	-	4	6
12F752	8	1	-	3	1	1	-/-	-/-	-	-	4	6
12F1822	8	3	256	3	1	1	1/1	1/1	-	-	4	6
12F1840	8	6	256	3	1	1	1/1	1/1	-	-	4	6
16F72	28	3	-	3	1	1	-/1	1/1	-	-	5	22
16F73	28	6	-	3	2	2	1/1	1/1	-	-	5	22
16F74	40	6	-	3	2	2	1/1	1/1	-	-	8	33
16F76	28	11	-	3	2	2	1/1	1/1	-	-	5	22
16F77	40	11	-	3	2	2	1/1	1/1	-	-	8	33

16F84	18	1	64	1	-	-	-/-	-/-	-	-	-	13
16F87	18	6	256	3	1	1	1/1	1/1	-	-	-	16
16F88	18	6	256	3	1	1	1/1	1/1	-	-	7	16
16F610	14	1	-	2	-	-	-/-	-/-	-	-	-	12
16F616	14	3	-	3	1	1	-/-	-/-	-	-	8	12
16F627	18	1	128	3	1	1	1/-	-/-	-	-	-	16
16F628	18	3	128	3	1	1	1/-	-/-	-	-	-	16
16F630	14	1	128	2	-	-	-/-	-/-	-	-	-	12
16F631	20	1	128	2	-	-	-/-	-/-	-	-	-	18
16F636	14	3	256	2	-	-	-/-	-/-	-	-	-	12
16F639	20	3	256	2	-	-	-/-	-/-	-	-	-	12
16F676	14	1	128	2	-	-	-/-	-/-	-	-	8	12
16F677	20	3	256	2	-	-	-/1	1/1	-	-	12	18
16F684	14	3	256	3	1	1	-/-	-/-	-	-	8	12
16F685	20	6	256	3	1	1	-/-	-/-	-	-	12	18
16F687	20	3	256	2	-	-	1/1	1/1	-	-	12	18
16F688	14	6	256	2	-	-	1/-	-/-	-	-	8	12
16F689	20	6	256	2	-	-	1/1	1/1	-	-	12	18
16F690	20	6	256	3	1	1	1/1	1/1	-	-	12	18
16F707	40	11	-	4	2	2	1/1	1/1	-	-	14	36
16F716	18	3	-	3	1	1	-/-	-/-	-	-	4	13
16F720	20	3	-	3	1	1	1/1	1/1	-	-	12	18
16F721	20	6	-	3	1	1	1/1	1/1	-	-	12	18
16F722	28	3	-	3	2	2	1/1	1/1	-	-	11	25
16F723	28	6	-	3	2	2	1/1	1/1	-	-	11	25
16F724	40	6	-	3	2	2	1/1	1/1	-	-	14	36
16F726	28	11	-	3	2	2	1/1	1/1	-	-	11	25
16F727	40	11	-	3	2	2	1/1	1/1	-	-	14	36
16F737	28	6	-	3	3	3	1/1	1/1	-	-	11	25
16F747	40	6	-	3	3	3	1/1	1/1	-	-	14	36
16F767	28	11	-	3	3	3	1/1	1/1	-	-	11	25
16F777	40	11	-	3	3	3	1/1	1/1	-	-	14	36
16F785	20	3	256	3	1	2	-/-	-/-	-	-	12	18
16F818	18	1	128	3	1	1	-/1	1/1	-	-	5	16
16F819	18	3	256	3	1	1	-/1	1/1	-	-	5	16
16F870	28	3	64	3	1	1	1/-	-/-	-	-	5	22
16F871	40	3	64	3	1	1	1/-	-/-	-	-	8	33
16F872	28	3	64	3	1	1	-/-	-/1	-	-	5	22
16F873	28	6	128	3	2	2	1/-	-/1	-	-	5	22
16F874	40	6	128	3	2	2	1/-	-/1	-	-	8	33
16F876	28	11	256	3	2	2	1/-	-/1	-	-	5	22
16F877	40	11	256	3	2	2	1/-	-/1	-	-	8	33
16F882	28	3	128	3	2	2	1/1	1/1	-	-	11	25
16F883	28	6	256	3	2	2	1/1	1/1	-	-	11	25
16F884	40	6	256	3	2	2	1/1	1/1	-	-	14	36

16F886	28	11	256	3	2	2	1/1	1/1	-	-	11	25
16F887	40	11	256	3	2	2	1/1	1/1	-	-	14	36
16F913	28	6	256	3	1	1	1/1	1/1	-	-	5	25
16F914	40	6	256	3	2	2	1/1	1/1	-	-	8	36
16F916	28	11	256	3	1	1	1/1	1/1	-	-	5	25
16F917	40	11	256	3	2	2	1/1	1/1	-	-	8	36
16F946	64	11	256	3	2	2	1/1	1/1	-	-	8	54
16F1516	28	11	-	3	2	2	1/1	1/1	-	-	17	25
16F1517	40	11	-	3	2	2	1/1	1/1	-	-	28	36
16F1518	28	22	-	3	2	2	1/1	1/1	-	-	17	25
16F1519	40	22	-	3	2	2	1/1	1/1	-	-	28	36
16F1526	64	11	-	9	10	10	2/2	2/2	-	-	30	55
16F1527	64	22	-	9	10	10	2/2	2/2	-	-	30	55
16F1782	28	3	256	5	2	2	1/1	1/1	-	-	11	25
16F1783	28	6	256	5	2	2	1/1	1/1	-	-	11	25
16F1823	14	3	256	3	1	1	1/1	1/1	-	-	8	12
16F1824	14	6	256	5	4	4	1/1	1/1	-	-	8	12
16F1825	14	11	256	5	4	4	1/1	1/1	-	-	8	12
16F1826	18	3	256	3	1	1	1/1	1/1	-	-	12	16
16F1827	18	6	256	5	4	4	1/2	2/2	-	-	12	16
16F1828	20	6	256	5	4	4	1/1	1/1	-	-	12	18
16F1829	20	11	256	5	4	4	1/2	2/2	-	-	12	18
16F1847	18	11	256	5	4	4	1/2	2/2	-	-	12	16
16F1933	28	6	256	5	5	5	1/1	1/1	-	-	11	25
16F1934	40	6	256	5	5	5	1/1	1/1	-	-	14	36
16F1936	28	11	256	5	5	5	1/1	1/1	-	-	11	25
16F1937	40	11	256	5	5	5	1/1	1/1	-	-	14	36
16F1938	28	22	256	5	5	5	1/1	1/1	-	-	11	25
16F1939	40	22	256	5	5	5	1/1	1/1	-	-	14	36
16F1946	64	11	256	5	5	5	2/2	2/2	-	-	17	53
16F1947	64	22	256	5	5	5	2/2	2/2	-	-	17	53
16F84A	18	1	64	1	-	-	-/-	-/-	-	-	-	13
16F627A	18	1	128	3	1	1	1/-	-/-	-	-	-	16
16F628A	18	3	128	3	1	1	1/-	-/-	-	-	-	16
16F648A	18	6	256	3	1	1	1/-	-/-	-	-	-	16
16F722A	28	3	-	3	2	2	1/1	1/1	-	-	11	25
16F723A	28	6	-	3	2	2	1/1	1/1	-	-	11	25
16F873A	28	6	128	3	2	2	1/-	-/1	-	-	5	22
16F874A	40	6	128	3	2	2	1/-	-/1	-	-	8	33
16F876A	28	11	256	3	2	2	1/-	-/1	-	-	5	22
16F877A	40	11	256	3	2	2	1/-	-/1	-	-	8	33
(16LF707)	40	11	-	4	2	2	1/1	1/1	-	-	14	36
(16LF720)	20	3	-	3	1	1	1/1	1/1	-	-	12	18
(16LF721)	20	6	-	3	1	1	1/1	1/1	-	-	12	18
(16LF722)	28	3	-	3	2	2	1/1	1/1	-	-	11	25

(16LF723)	28	6	-	3	2	2	1/1	1/1	-	-	11	25
(16LF724)	40	6	-	3	2	2	1/1	1/1	-	-	14	36
(16LF726)	28	11	-	3	2	2	1/1	1/1	-	-	11	25
(16LF727)	40	11	-	3	2	2	1/1	1/1	-	-	14	36
(16LF1516)	28	11	-	3	2	2	1/1	1/1	-	-	17	25
(16LF1517)	40	11	-	3	2	2	1/1	1/1	-	-	28	36
(16LF1518)	28	22	-	3	2	2	1/1	1/1	-	-	17	25
(16LF1519)	40	22	-	3	2	2	1/1	1/1	-	-	28	36
(16LF1526)	64	11	-	9	10	10	2/2	2/2	-	-	30	55
(16LF1527)	64	22	-	9	10	10	2/2	2/2	-	-	30	55
(16LF1782)	28	3	256	5	2	2	1/1	1/1	-	-	11	25
(16LF1783)	28	6	256	5	2	2	1/1	1/1	-	-	11	25
(16LF1823)	14	3	256	3	1	1	1/1	1/1	-	-	8	12
(16LF1824)	14	6	256	5	4	4	1/1	1/1	-	-	8	12
(16LF1825)	14	11	256	5	4	4	1/1	1/1	-	-	8	12
(16LF1826)	18	3	256	3	1	1	1/1	1/1	-	-	12	16
(16LF1827)	18	6	256	5	4	4	1/2	2/2	-	-	12	16
(16LF1828)	20	6	256	5	4	4	1/1	1/1	-	-	12	18
(16LF1829)	20	11	256	5	4	4	1/2	2/2	-	-	12	18
(16LF1847)	18	11	256	5	4	4	1/2	2/2	-	-	12	16
(16LF1902)	28	3	-	2	-	-	-/-	-/-	-	-	11	25
(16LF1903)	28	6	-	2	-	-	-/-	-/-	-	-	11	25
(16LF1904)	40	6	-	2	-	-	1/-	-/-	-	-	14	36
(16LF1906)	28	11	-	2	-	-	1/-	-/-	-	-	11	25
(16LF1907)	40	11	-	2	-	-	1/-	-/-	-	-	14	36
(16LF1933)	28	6	256	5	5	5	1/1	1/1	-	-	11	25
(16LF1934)	40	6	256	5	5	5	1/1	1/1	-	-	14	36
(16LF1936)	28	11	256	5	5	5	1/1	1/1	-	-	11	25
(16LF1937)	40	11	256	5	5	5	1/1	1/1	-	-	14	36
(16LF1938)	28	22	256	5	5	5	1/1	1/1	-	-	11	25
(16LF1939)	40	22	256	5	5	5	1/1	1/1	-	-	14	36
(16LF1946)	64	11	256	5	5	5	2/2	2/2	-	-	17	53
(16LF1947)	64	22	256	5	5	5	2/2	2/2	-	-	17	53

Name	Pins	Prog [kB]	EEPROM [B]	TMR	ECCP /CCP	PWM mot	UART /SPI	SSP I2C	CAN	USB	ADC	IO- Pins
18F242	28	16	256	4	2	2	1/-	1/-	-	-	5	23
18F248	28	16	256	4	1	1	1/-	1/-	1	-	5	23
18F252	28	32	256	4	2	2	1/-	1/-	-	-	5	23
18F258	28	32	256	4	1	1	1/-	1/-	1	-	5	23
18F442	40	16	256	4	2	2	1/-	1/-	-	-	8	34
18F448	40	16	256	4	2	2	1/-	1/-	1	-	8	34
18F452	40	32	256	4	2	2	1/-	1/-	-	-	8	34
18F458	40	32	256	4	2	2	1/-	1/-	1	-	8	34
18F1220	18	4	256	4	1	1	1/-	-/-	-	-	7	16
18F1230	18	4	128	2	-	-	1/-	-/-	-	-	4	16

18F1320	18	8	256	4	1	1	1/-	-/-	-	-	7	16
18F1330	18	8	128	2	-	-	1/-	-/-	-	-	4	16
18F2220	28	4	256	4	2	2	1/1	1/1	-	-	10	25
18F2221	28	4	256	4	2	2	1/1	1/1	-	-	10	25
18F2320	28	8	256	4	2	2	1/1	1/1	-	-	10	25
18F2321	28	8	256	4	2	2	1/1	1/1	-	-	10	25
18F2331	28	8	256	4	2	2	1/1	1/1	-	-	5	24
18F2410	28	16	-	4	2	2	1/1	1/1	-	-	10	25
18F2420	28	16	256	4	2	2	1/1	1/1	-	-	10	25
18F2423	28	16	256	4	2	2	1/1	1/1	-	-	10	25
18F2431	28	16	256	4	2	2	1/1	1/1	-	-	5	24
18F2450	28	16	-	3	1	1	1/-	-/-	-	1	10	23
18F2455	28	24	256	4	2	2	1/1	1/1	-	1	10	24
18F2458	28	24	256	4	2	2	1/1	1/1	-	1	10	24
18F2480	28	16	256	4	1	1	1/1	1/1	1	-	8	25
18F2510	28	32	-	4	2	2	1/1	1/1	-	-	10	25
18F2515	28	48	-	4	2	2	1/1	1/1	-	-	10	25
18F2520	28	32	256	4	2	2	1/1	1/1	-	-	10	25
18F2523	28	32	256	4	2	2	1/1	1/1	-	-	10	25
18F2525	28	48	1024	4	2	2	1/1	1/1	-	-	10	25
18F2550	28	32	256	4	2	2	1/1	1/1	-	1	10	24
18F2553	28	32	256	4	2	2	1/1	1/1	-	1	10	24
18F2580	28	32	256	4	1	1	1/1	1/1	1	-	8	25
18F2585	28	48	1024	4	1	1	1/1	1/1	1	-	8	25
18F2610	28	64	-	4	2	2	1/1	1/1	-	-	10	25
18F2620	28	64	1024	4	2	2	1/1	1/1	-	-	10	25
18F2680	28	64	1024	4	1	1	1/1	1/1	1	-	8	25
18F2682	28	80	1024	4	1	1	1/1	1/1	1	-	8	25
18F2685	28	96	1024	4	1	1	1/1	1/1	1	-	8	25
18F4220	40	4	256	4	2	2	1/1	1/1	-	-	13	36
18F4221	40	4	256	4	2	2	1/1	1/1	-	-	13	36
18F4320	40	8	256	4	2	2	1/1	1/1	-	-	13	36
18F4321	40	8	256	4	2	2	1/1	1/1	-	-	13	36
18F4331	40	8	256	4	2	2	1/1	1/1	-	-	9	36
18F4410	40	16	-	4	2	2	1/1	1/1	-	-	13	36
18F4420	40	16	256	4	2	2	1/1	1/1	-	-	13	36
18F4423	40	16	256	4	2	2	1/1	1/1	-	-	13	36
18F4431	40	16	256	4	2	2	1/1	1/1	-	-	9	36
18F4450	40	16	-	3	1	1	1/-	-/-	-	1	13	34
18F4455	40	24	256	4	2	2	1/1	1/1	-	1	13	35
18F4458	40	24	256	4	2	2	1/1	1/1	-	1	13	35
18F4480	40	16	256	4	2	2	1/1	1/1	1	-	11	36
18F4510	40	32	-	4	2	2	1/1	1/1	-	-	13	36
18F4515	40	48	-	4	2	2	1/1	1/1	-	-	13	36
18F4520	40	32	256	4	2	2	1/1	1/1	-	-	13	36

18F4523	40	32	256	4	2	2	1/1	1/1	-	-	13	36
18F4525	40	48	1024	4	2	2	1/1	1/1	-	-	13	36
18F4550	40	32	256	4	2	2	1/1	1/1	-	1	13	35
18F4553	40	32	256	4	2	2	1/1	1/1	-	1	13	35
18F4580	40	32	256	4	2	2	1/1	1/1	1	-	11	36
18F4585	40	48	1024	4	2	2	1/1	1/1	1	-	11	36
18F4610	40	64	-	4	2	2	1/1	1/1	-	-	13	36
18F4620	40	64	1024	4	2	2	1/1	1/1	-	-	13	36
18F4680	40	64	1024	4	2	2	1/1	1/1	1	-	11	36
18F4682	40	80	1024	4	2	2	1/1	1/1	1	-	11	36
18F4685	40	96	1024	4	2	2	1/1	1/1	1	-	11	36
18F6310	64	8	-	4	3	3	2/1	1/1	-	-	12	54
18F6390	64	8	-	4	2	2	2/1	1/1	-	-	12	50
18F6393	64	8	-	4	2	2	2/1	1/1	-	-	12	50
18F6410	64	16	-	4	3	3	2/1	1/1	-	-	12	54
18F6490	64	16	-	4	2	2	2/1	1/1	-	-	12	50
18F6493	64	16	-	4	2	2	2/1	1/1	-	-	12	50
18F6520	64	32	1024	5	5	5	2/1	1/1	-	-	12	52
18F6525	64	48	1024	5	5	5	2/-	1/-	-	-	12	53
18F6527	64	48	1024	5	5	5	2/2	2/2	-	-	12	54
18F6585	64	48	1024	4	2	2	1/-	1/-	1	-	12	53
18F6620	64	64	1024	5	5	5	2/-	1/-	-	-	12	52
18F6621	64	64	1024	5	5	5	2/-	1/-	-	-	12	53
18F6622	64	64	1024	5	5	5	2/2	2/2	-	-	12	54
18F6627	64	96	1024	5	5	5	2/2	2/2	-	-	12	54
18F6628	64	96	1024	5	5	5	2/2	2/2	-	-	12	54
18F6680	64	64	1024	4	2	2	1/-	1/-	1	-	12	53
18F6720	64	128	1024	5	5	5	2/-	1/-	-	-	12	52
18F6722	64	128	1024	5	5	5	2/2	2/2	-	-	12	54
18F6723	64	128	1024	5	5	5	2/2	2/2	-	-	12	54
18F8310	80	8	-	4	3	3	2/1	1/1	-	-	12	70
18F8390	80	8	-	4	2	2	2/1	1/1	-	-	12	66
18F8393	80	8	-	4	2	2	2/1	1/1	-	-	12	66
18F8410	80	16	-	5	3	3	2/1	1/1	-	-	12	70
18F8490	80	16	-	4	2	2	2/1	1/1	-	-	12	66
18F8493	80	16	-	4	2	2	2/1	1/1	-	-	12	66
18F8520	80	32	1024	5	5	5	2/1	1/1	-	-	16	68
18F8525	80	48	1024	5	5	5	2/-	1/-	-	-	16	69
18F8527	80	48	1024	5	5	5	2/2	2/2	-	-	16	70
18F8585	80	48	1024	4	2	2	1/-	1/-	1	-	16	69
18F8620	80	64	1024	5	5	5	2/-	1/-	-	-	16	68
18F8621	80	64	1024	5	5	5	2/-	1/-	-	-	16	69
18F8622	80	64	1024	5	5	5	2/2	2/2	-	-	16	70
18F8627	80	96	1024	5	5	5	2/2	2/2	-	-	16	70
18F8628	80	96	1024	5	5	5	2/2	2/2	-	-	16	70

18F8680	80	64	1024	4	2	2	1/-	1/-	1	-	16	69
18F8720	80	128	1024	5	5	5	2/-	1/-	-	-	16	68
18F8722	80	128	1024	5	5	5	2/2	2/2	-	-	16	70
18F8723	80	128	1024	5	5	5	2/2	2/2	-	-	16	70

Name	Pins	Prog [kB]	EEPRM [B]	TMR	ECCP /CCP	PWM mot	UART /SPI	SSP I2C	CAN	USB	ADC	IO- Pins
18F13K22	20	8	256	4	1	1	1/1	1/1	-	-	12	18
18F13K50	20	8	256	4	1	1	1/1	1/1	-	1	9	15
18F14K22	20	16	256	4	1	1	1/1	1/1	-	-	12	18
18F14K50	20	16	256	4	1	1	1/1	1/1	-	1	9	15
18F23K20	28	8	256	4	2	2	1/1	1/1	-	-	10	25
18F23K22	28	8	256	4	2	2	2/2	2/2	-	-	17	25
18F24K20	28	16	256	4	2	2	1/1	1/1	-	-	10	25
18F24K22	28	16	256	4	2	2	2/2	2/2	-	-	17	25
18F25K20	28	32	256	4	2	2	1/1	1/1	-	-	10	25
18F25K22	28	32	256	7	5	5	2/2	2/2	-	-	17	25
18F26K20	28	64	1024	4	2	2	1/1	1/1	-	-	10	25
18F26K22	28	64	1024	7	5	5	2/2	2/2	-	-	17	25
18F43K20	40	8	256	4	2	2	1/1	1/1	-	-	13	36
18F43K22	40	8	256	4	2	2	2/2	2/2	-	-	28	36
18F44K20	40	16	256	4	2	2	1/1	1/1	-	-	13	36
18F44K22	40	16	256	4	2	2	2/2	2/2	-	-	28	36
18F45K20	40	32	256	4	2	2	1/1	1/1	-	-	13	36
18F45K22	40	32	256	7	5	5	2/2	2/2	-	-	28	36
18F46K20	40	64	1024	4	2	2	1/1	1/1	-	-	13	36
18F46K22	40	64	1024	7	5	5	2/2	2/2	-	-	28	36

18LF13K22	20	8	256	4	1	1	1/1	1/1	-	-	12	18
18LF13K50	20	8	256	4	1	1	1/1	1/1	-	1	9	15
18LF14K22	20	16	256	4	1	1	1/1	1/1	-	-	12	18
18LF14K50	20	16	256	4	1	1	1/1	1/1	-	1	9	15
18LF23K22	28	8	256	4	2	2	2/2	2/2	-	-	17	25
18LF24K22	28	16	256	4	2	2	2/2	2/2	-	-	17	25
18LF25K22	28	32	256	7	5	5	2/2	2/2	-	-	17	25
18LF26K22	28	64	1024	7	5	5	2/2	2/2	-	-	17	25
18LF43K22	40	8	256	4	2	2	2/2	2/2	-	-	28	36
18LF44K22	40	16	256	4	2	2	2/2	2/2	-	-	28	36
18LF45K22	40	32	256	7	5	5	2/2	2/2	-	-	28	36
18LF46K22	40	64	1024	7	5	5	2/2	2/2	-	-	28	36

Name	Pins	Prog [kB]	EEPRM [B]	TMR	ECCP /CCP	PWM mot	UART /SPI	SSP I2C	CAN	USB	ADC	IO- Pins
30F2010	28	12	1024	4	4	2	1/1	-/1	-	-	6	20
30F2011	18	12	-	4	2	2	1/1	-/1	-	-	8	12

30F2012	28	12	-	4	2	2	1/1	-/1	-	-	10	20
30F3010	28	24	1024	7	4	2	1/1	-/1	-	-	6	20
30F3011	40	24	1024	7	4	4	2/1	-/1	-	-	9	30
30F3012	18	24	1024	4	2	2	1/1	-/1	-	-	8	12
30F3013	28	24	1024	4	2	2	2/1	-/1	-	-	10	20
30F3014	40	24	1024	4	2	2	2/1	-/1	-	-	13	30
30F4011	40	48	1024	7	4	4	2/1	-/1	1	-	9	30
30F4012	28	48	1024	7	4	2	1/1	-/1	1	-	6	20
30F4013	40	48	1024	7	4	4	2/1	-/1	1	-	13	30
30F5011	64	66	1024	7	8	8	2/2	-/1	2	-	16	52
30F5013	80	66	1024	7	8	8	2/2	-/1	2	-	16	68
30F5015	64	66	1024	7	4	4	1/2	-/1	1	-	16	52
30F5016	80	66	1024	7	4	4	1/2	-/1	1	-	16	68
30F6010	80	144	4096	5	8	1	2/2	-/1	2	-	16	68
30F6011	64	132	2048	5	8	-	2/2	-/1	2	-	16	52
30F6012	64	144	4096	5	8	-	2/2	-/1	2	-	16	52
30F6013	80	132	2048	5	8	-	2/2	-/1	2	-	16	68
30F6014	80	144	4096	5	8	-	2/2	-/1	2	-	16	68
30F6015	64	144	4096	7	8	8	2/2	-/1	1	-	16	52
30F6010A	80	144	4096	7	8	8	2/2	-/1	2	-	16	68
30F6011A	64	132	2048	7	8	8	2/2	-/1	2	-	16	52
30F6012A	64	144	4096	7	8	8	2/2	-/1	2	-	16	52
30F6013A	80	132	2048	7	8	8	2/2	-/1	2	-	16	68
30F6014A	80	144	4096	7	8	8	2/2	-/1	2	-	16	68

Credits

GUI by Rodrigo Méndez.

usburn command line tool by Sprut (http://www.sprut.de/electronic/soft/usburn/linux/usburn_linux.htm).