

# flashutil

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Z8 Encore flash programming utility.

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# 1 Overview

The `flashutil` program is a command line utility used to program Z8 Encore devices.

The flash utility will automatically erase, blank check, program, and verify a device.

```
SHELL> flashutil data.ihx
Z8 Encore! Flash Utility  v1.00
Autoconnecting to device ... found on /dev/ttyb
Memory size: 64k
Reading file: data.ihx ... ok
Erasing device ... ok
Blank check ... ok, crc: ffff
Programming device ... ok
Verifying ... ok, crc: 752c
SHELL>
```



## 2 Syntax

The `flashutil` has the following command line syntax. All options are viewable using the `-h` switch. The `flashutil` command should be followed with the filename of the intel hexfile to program into the device.

### 2.1 Options

```
SHELL> flashutil -h
Z8 Encore! Flash Utility  v1.00
Usage: flashutil [OPTION]... [FILE]
Utility to program Z8 Encore! flash devices.

    -h                show this help
    -i                display information about device
    -m                multipass mode
    -e                erase device
    -p SERIALPORT    specify serialport to use (default: auto)
    -b BAUDRATE      use baudrate (default: 115200)
    -t MTU           maximum transmission unit (default 0)
    -c FREQUENCY     clock frequency in hertz (default: 18432000)
    -s FILENAME      save memory to file
    -z                fill memory with 00 instead of FF

SHELL>
```

#### 2.1.1 -h

The `-h` option displays a list of all the command line options.

#### 2.1.2 -i

The `-i` option will display information about device. It displays the memory size, memory CRC, and the read protect setting.

#### 2.1.3 -m

The `-m` option places the flash utility in multipass mode. Multipass mode is used to program multiple devices with little user intervention.

#### 2.1.4 -e

The `-e` option is used to erase the part. Programming operations automatically erase the part. This option is only needed to erase parts without programming them.

#### 2.1.5 -p SERIALPORT

The `-p SERIALPORT` option specifies the serial port to use. By default, the flash utility will auto-search every serial port until it finds a valid device.

### 2.1.6 -b BAUDRATE

The ‘-b BAUDRATE’ option specifies the baudrate to use.

### 2.1.7 -t MTU

The ‘-t MTU’ option specifies the maximum transmission unit to use. This is used to break the communication sent to and received from the remote device into smaller packets. This is useful if the host machine has overrun error problems. An MTU of 16 is guaranteed to never overflow a standard PC 16550 UART since it has a 16 byte hardware fifo.

### 2.1.8 -c FREQUENCY

The ‘-c FREQUENCY’ option specifies the clock frequency of the remote device. This parameter is used to time programming and erase operations. The frequency can be suffixed with ‘kHz’ or ‘MHz’.

### 2.1.9 -s FILENAME

The ‘-s FILENAME’ option tells the flash utility to read the existing data out of the device and save it to ‘FILENAME’ before doing any erase or program operations.

### 2.1.10 -z

The ‘-z’ option will fill unspecified memory locations with 00 instead of FF.