

FarSync Flex V3 Firmware Update Procedure

The *FarSync Flex V3* ships with a *Factory Default* version of firmware and this may be updated with a newer (or older) version as required using the *f3flash* tool. The *f3flash* tool allows a user to check and update the FLASH memory in the *Flex V3*.

The file to be downloaded to the *Flex V3* is usually named *FLEX_ARM-XXXX-AB.HEX*, where *XXXX* is the version number. The executable that downloads the code to the *Flex V3* is called *f3flash(.exe)*. In order to update the *Flex V3* you must have previously installed the *Flex* driver, then follow this procedure:

1. Copy the *FLEX_ARM-XXXX-AB.HEX* and *f3flash.exe* (*Windows*) or *f3flash* (*Linux*) to a convenient folder on the host PC.
2. Attach the *Flex V3* and identify the SDCI number (*Windows*) or sync number (*Linux*) associated with it. For *Windows*, this can be found from the *FarSync Card Info* or *FsWinAPI Demo* utilities (if you installed them), or direct from Device Manager under *FarSync WAN Adapters*. For *Linux*, this can be found by entering the command *more /proc/fsflex*.
3. For *Windows*, enter *f3flash -nSDCIx -iFLEX_ARM-XXXX-AB.HEX* at the command prompt. For *Linux*, enter *sudo ./f3flash -nsyncx -iFLEX_ARM-XXXX-AB.HEX* at the command line. Where "x" is the SDCI/sync number identified above and "XXXX" is the version number of the supplied file.
4. The program will report the current FLASH content, showing which is the current active block, the user will then be offered the option to download a new version (to the inactive block). You should see something like this:

```
C:\TEMP>F3Flash -nSDCI3 -iFLEX_ARM-0417-AB.HEX

F3Flash Version 2.0.2

Path: \\.\SDCI3\0

FarSync Flex F3Flash Version 2.0.2
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Block   Address       Version Status  Attribute   Active
0       0x1a000000    0.4.1.6 used   rwx         <
1       0x1b000000    0.4.1.6 free   rwx

Do you wish to continue programming (Y/N)?
```

5. Enter “Y” to proceed with the update (the inactive block may be used or free, the updater will erase before programming). You should see something like:

```
Reading Hex file...
File                FLEX_ARM-0417-AB.hex
Start Address       0x1B000301
Checksum            0x012AE632
FLASH minAddress     0x00000000
FLASH maxAddress     0x0001424B
FLASH used           82508 bytes

Erasing FLASH (block 1 @ 0x1b000000)
Erase Success

Programming FLASH (block 1 @ 0x1b000000)
FLASH flashAddress    0x1B000200
FLASH flashEndAddress 0x1B01FFFF
=====
=====
Program Success

Verifying FLASH (block 1 @ 0x1b000000)
FLASH flashAddress    0x1B000000
FLASH flashEndAddress 0x1B01FFFF
=====
=====
Verify Success

Switch to flash block 1
Switch Success

Unplug and replug the FarSync Flex to complete the firmware update
```

6. The *Flex V3* can now be unplugged and replugged to activate the new code.

7. The updated *Flex V3* can now be run under *Windows* or *Linux* as desired.

Note: Earlier *Flex* or *Flex V2* products use a different tool (*ffflash*) and procedure for updating the flash. *F3flash* will not work with *Flex* or *Flex V2* and *ffflash* will not work with *Flex V3*.