SPI Flash Contents

# SPI File Header

The CBD boards include a SPI Flash where several “files” are stored. There’s no file system associated to the SPI Flash, each “file” is stored at a fixed location.

The SPI file header consists of two 32-bit integers in little-endian format:

* File identifier. It has the format 0x12FD00xx where xx specifies the type of file (0x12FD0019 is used for .photon/.cbddlp print files and is not stored in SPI Flash.
* File size (8byte header not included).

|  |  |  |  |
| --- | --- | --- | --- |
| File ID | Contents | Photon Classic Offset | Sonic Mini Offset |
| 0x12FD0001 | Unknown. Looks like some kind of picture format. | 0x00000000 | 0x00000000 |
| 0x12FD0002 | Unknown. Looks like some kind of picture format, but in FW seems like it is used for file names mapping. | 0x00016000 | 0x00016000 |
| 0x12FD000A | Start-up logo (animated)? | - | 0x0002C000 |
| 0x12FD000B | Start-up logo | 0x0002C000 | - |
| 0x12FD000C | UI File | 0x001A0000 | 0x00140000 |
| 0x12FD001E | FPGA image | 0x00078000 | - |
| 0x12FD0021 | FPGA image? | - | 0x00079000 |
| 0x12FD001F | 2K LCD mask | Not in 4.0.11 | - |
| 0x12FD0023 | Font File | 0x000A0000 | 0x000C0000 |
| 0x12FD0019 | .photon/.cbddlp Print files | Not stored in SPI Flash | |