Contents

FLASH file recording formats

The SPI NOR FLASH space is divided into 4KB blocks. The first block located at address zero is the block with autoload parameters. It lists files that are loaded from FLASH into RAM and deployed to processes.

Autoload block format

Offset	Length	Description
0	64	It is not used and must contain bytes with the code 0FFh.
First autoload file		
64	58	A null-terminated filename.
122	1	Flag to start or not start the process. If the byte is zero, then the process is not started.
123	1	Processor number on which the process should be started. If 0, then on the current one.
124	4	Launch parameter.
Second autoload file		
128	58	Second startup file, or 0FFh if there are no more startup files.
186	1	Flag to start or not start the process. If the byte is zero, then the process is not started.
187	1	Processor number on which the process should be started. If 0, then on the current one.
188	4	Launch parameter.

FLASH File Header Block Format

This block format is used to store the first 3840 bytes of file data in Flash. If the file is less than 3840 bytes, then this block format is used to write the entire file, and the Upper link indicator of the block is set to zero.

Offset	Length	Description
0	2	Lower link indicator. Always 0 for the first block.
2	2	Upper link indicator. If the file fits entirely in a 4KB block, then the link pointer is set to 0.
4	4	CRC code of the block. If a block is not fully used, then only the part that is used is included in the CRC. CRC is calculated starting from the 8th byte of the block.
8	5	File length in bytes.
13	1	Attribute byte.

Offset	Length	Description
14	4	The date the file was created.
18	2	The time the file was created.
20	4	The date the file was last modified.
24	2	The time the file was last modified.
26	6	Reserved.
32	224	File name.
256	3840	Data.

The format of the intermediate block or the last block of the file

Offset	Length	Description
0	2	Lower link indicator.
2	2	Upper link indicator. If the block is the last one, then these two bytes are set to 0.
4	4	CRC.
8	4088	Data.