

# AtomSD

This is the data sheet for the AtomSD micro. It was created using FatFs Generic FAT File System Module created by ELM and is intended to be ran on a PIC18LF4620. Of course one may be able to port it to another MCU.

This data sheet will list all the available commands and examples.

Pinning used on my version:

**PIN DEFINITION IMAGES COMING SOON!**

# Commands

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**LIST**: This command LIST DIRECTORIES and FILES.

Parameters include:

**Directory** = Directory to start at. "/" is root (UP TO 126 BYTES + SPACE)

**LF** = LINE FEED (1 BYTE 0x0A)

EXAMPLE: **LIST / 0x0A**

The above example will return: C [X LF]

**C** = Count of directories Found

**X** = Directory/File Name

**LF** = LINE FEED (0x0A)

Example: If your root has 3 folders [FOLD1]-[FOLD2]-[FOLD3]  
and 1 file [HELLO.TXT]

**LIST / 0x0A**

Will return:

0x04 FOLD1 0x0A FOLD2 0x0A FOLD3 0x0A HELLO.TXT 0x0A

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**LIFI**: This command list FILES only.

Parameters include:

**Directory** = Directory to start at. "/" is root (UP TO 126 BYTES + SPACE)

**LF** = LINE FEED (1 BYTE 0x0A)

EXAMPLE: **LIFI / 0x0A**

The above example will return: C [X LF]

**C** = Count of files Found

**X** = File Name

**LF** = LINE FEED (0x0A)

Example: If your root has 3 folders [FOLD1]-[FOLD2]-[FOLD3]  
and 1 file [HELLO.TXT]

**LIFI / 0x0A**

Will return:

0x01 HELLO.TXT 0x0A

**LIDI**: This command LIST directories only.

Parameters include:

**Directory** = Directory to start at. "/" is root (UP TO 126 BYTES + SPACE)

**LF** = LINE FEED (1 BYTE 0x0A)

EXAMPLE: **LIDI / 0x0A**

The above example will return: C [X LF]

**C** = Count of directories Found

**X** = Directory Name

**LF** = LINE FEED (0x0A)

Example: If your root has 3 folders [FOLD1]-[FOLD2]-[FOLD3]  
and 1 file [HELLO.TXT]

**LIDI / 0x0A**

Will return:

0x03 FOLD1 0x0A FOLD2 0x0A FOLD3 0x0A

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**READ**: This command reads a file.

Parameters include:

**SSSS** = Seek Location, where to start when getting data (4 BYTES + SPACE)

**C** = Count of bytes to return, MAX 128 (1 BYTE + SPACE)

**FILENAME** = FILE NAME (UP TO 128 BYTES + SPACE)

**LF** = LINE FEED (1 BYTE 0x0A)

EXAMPLE: **READ 0000 0x0A HELLO.TXT 0x0A**

The above example will return the first 10 bytes in the file HELLO.TXT

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**FIFI**: This command Finds a File.

Parameters include:

**FILENAME** = FILE NAME (UP TO 128 BYTES + SPACE)

**LF** = LINE FEED (1 BYTE 0x0A)

EXAMPLE: **FIFI HELLO.TXT 0x0A**

The above example will return 1 if the file is found and 0 if NOT found.

**FIDI**: This command Finds a Directory

Parameters include:

**DIRECTORY** = DIRECTORY NAME (UP TO 128 BYTES + SPACE)

**LF** = LINE FEED (1 BYTE 0x0A)

EXAMPLE: **FIFI ABOUT 0x0A**

The above example will return 1 if the Directory is found and 0 if NOT found.

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**WRIT**: This command Creates or Overwrites a file with the data obtained.

Parameters include:

**LEN** = Length of data bytes. (UP TO 128 + SPACE)

**FILENAME** = DIRECTORY NAME (UP TO 128 BYTES + SPACE)

**DATA** = Data Bytes to go in File.(UP TO 128 BYTES + SPACE)

**LF** = LINE FEED (1 BYTE 0x0A)

EXAMPLE: **WRIT 0x0F HELLO.TXT HI, HOW ARE YOU? 0x0A**

This function returns the amount of bytes written to file. Should be 0x0F in this example.  
Will return 0 if failed.

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**APND**: This command writes to the end of a file.

Parameters include:

**LEN** = Length of data bytes. (UP TO 128 + SPACE)

**FILENAME** = DIRECTORY NAME (UP TO 128 BYTES + SPACE)

**DATA** = Data Bytes to go in File.(UP TO 128 BYTES + SPACE)

**LF** = LINE FEED (1 BYTE 0x0A)

EXAMPLE: **APND 0x0F HELLO.TXT HI, HOW ARE YOU? 0x0A**

This function returns the amount of bytes written to file. Should be 0x0F in this example.  
Will return 0 if failed.