SIM7080 Series_FS_Application Note

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About Document

Document Information

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Revision	Date	Owner	Status / Comments
1.00	Sep 2, 2019	Xiangning.meng	First Release
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Related Documents

[1] SIM7080 Series_AT Command Manual_V1.02

This document applies to the following products:

Name	Type	Size (mm)	Comments
SIM7080G	CAT-M/NB	17.6*15.7 *2.3	N/A
SIM7070G/SIM7070E	CAT-M/NB/EGPRS	24*24*2.4	N/A
SIM7070G-NG	NB/EGPRS	24*24*2.4	N/A
SIM7090G	CAT-M/NB	14.8*12.8*2.0	N/A

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Contents

1 Purpose of this document

Based on module AT command manual, this document will introduce file system application process.

Developers could understand and develop application quickly and efficiently based on this document.

2 AT Commands for File System

Command	Description
AT+CFSINIT	Initialize the file system AT command
AT+CFSWFILE	Write File to the Flash Buffer Allocated by CFSINIT
AT+CFSRFILE	Read File from Flash
AT+CFSDFILE	Delete the File from the Flash
AT+CFSGFIS	Get File Size
AT+CFSREN	Rename a file
AT+CFSGFRS	Get the size of File System
AT+CFSTERM	Free the Flash Buffer Allocated by CFSINIT

For detail information, please refer to "SIM7080 Series_AT Command Manual".

3 File system samples

3.1 Download a file

AT Command	Response	Description
AT+CFSINIT	OK	Allocate the data buffer.
AT+CFSWFILE=0,"001.txt",0,100,10000	DOWNLOAD *// It is ready to receive data from UART, and DCD has been set to low.*	Set file parameters and get ready to write the data to the beginning to the end of the file "001.txt" in /custapp/ folder, which size is 100 bytes.
	··· // data OK //All data has been received over, and DCD is set to high.	Begin to download data to UART. Data transfer is finished.
AT+CFSGFIS=0,"001.txt"	+CFSGFIS: 100	Get the txt file size.

	OK	
AT+CFSTERM	OK	Free the data buffer.

3.2 Upload a file

AT Command	Response	Description
AT+CFSINIT	OK	Allocate the data buffer.
AT+CFSRFILE=0,"001.txt ",0,100,0		Set file parameters and get ready to read the data from the beginning to the end of the file "001.txt" in /custapp/ folder, which size is 100 bytes.
	···// data OK //All data has been received over, and DCD is set to high.	Begin to receive data from UART. Data transfer is finished.
AT+CFSGFIS=0,"001.txt"	+CFSGFIS: 100 OK	Get the AMR file size.
AT+CFSTERM	OK	Free the data buffer.

3.3 Delete a file

Delete the file "001.txt" from the module flash.

AT Command	Response	Description
AT+CFSINIT	OK	Allocate the data buffer.
AT+CFSDFILE=0,"001.txt "	OK	Delete the file "001.txt" in /custapp/ folder.
AT+CFSTERM	OK	Free the data buffer.

3.4 Rename a file

Rename the AMR file "001.txt" as "002.txt".

AT Command	Response	Description
AT+CFSINIT	OK	Allocate the data buffer.
AT+CFSREN=0,"001.txt", "002.txt"	OK	Rename the file "001.txt" to "002.txt".
AT+CFSTERM	OK	Free the data buffer.

3.5 Get the free size of File System

Get the free size of file system.

AT Command	Response	Description
AT+CFSINIT	OK	Allocate the data buffer.
AT+CFSGFRS?	+CFSGFRS: 22151168 OK //the free size of file system is 22151168	Get the size of File System.
AT+CFSTERM	OK	Free the data buffer.

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