Application

SIM7020 Series_NVRAM_Application Note

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About Document

Document Information

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Revision History

Revision	Date	Owner	Status / Comments
1.01	May 10, 2019	Wenjie.lai	First Release

Related Documents

[1] SIM7020 Series AT Command Manual V1.03

This document applies to the following products:

Name	Type	Size (mm)	Comments
SIM7020C	NB1	17.6*15.7	Band 1/3/5/8
SIM7020E	NB1	17.6*15.7	Band 1/3/5/8/20/28
SIM7020G	NB2	17.6*15.7	Band 1/2/3/4/5/8/12/13/17/18/19/20/25/26/28/66/70/71/85
SIM7060G	NB2+GNSS	24*24	Band 1/2/3/4/5/8/12/13/17/18/19/20/25/26/28/66/70/71/85

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1 Purpose of this document

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

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

2 NVRAM Sample

AT Command	Response	Description
AT+CNVMW="data1","I'm a test!",11	+CNVMW: 0 OK	Write data to NVRAM. The first parameter "data1" indicates the name of the data written to NVRAM. The second parameter "I'm a test!" is the specific content of the data to be written to the NVRAM. The third parameter 11 is the length of the data content to be written to the NVRAM, ie the length of the second parameter.
AT+CNVMW="data2","I'm a test2!",12	+CNVMW: 0 OK	
AT+CNVMGET	+CNVMGET: 0,"NVDM_CUST","data1" +CNVMGET: 1,"NVDM_CUST","data2" OK	Read all the information of all data written to the NVRAM using the AT+CNVMW instruction. The first response parameter is the id of the item, increasing sequentially from 0. The second response parameter is the name of the group to which the data written to NVRAM belongs. The third response parameter is the name of the data written to the NVRAM with the AT+CNVMW instruction.
AT+CNVMR="data1"	+CNVMR: 0,"data1",11,"I'm a test!" OK	Read a specific data written to the NVRAM by the AT+CNVMW instruction. The parameter is the name of the data written to the NVRAM with the AT+CNVMW instruction. response: The first response parameter 0 indicates that the read was successful, if another value indicates a read NVRAM error.

		The second response parameter represents the data name. The third response parameter indicates the actual length of the read NVRAM data. The fourth response parameter indicates the specific content of the read NVRAM data.
AT+CNVMR="data2"	+CNVMR: 0,"data2",12,"I'm a test2!" OK	
AT+CNVMIVD="data1"	+CNVMIVD: 0 OK	Delete one of the NVRAM data. The parameter is the name of the NVRAM data and can be queried by the AT+CNVMGET command. response: A response parameter of 0 indicates that the deletion was successful, and if other values indicate that the deletion failed.
AT+CNVMIVD="data2"	+CNVMIVD: 0 OK	

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