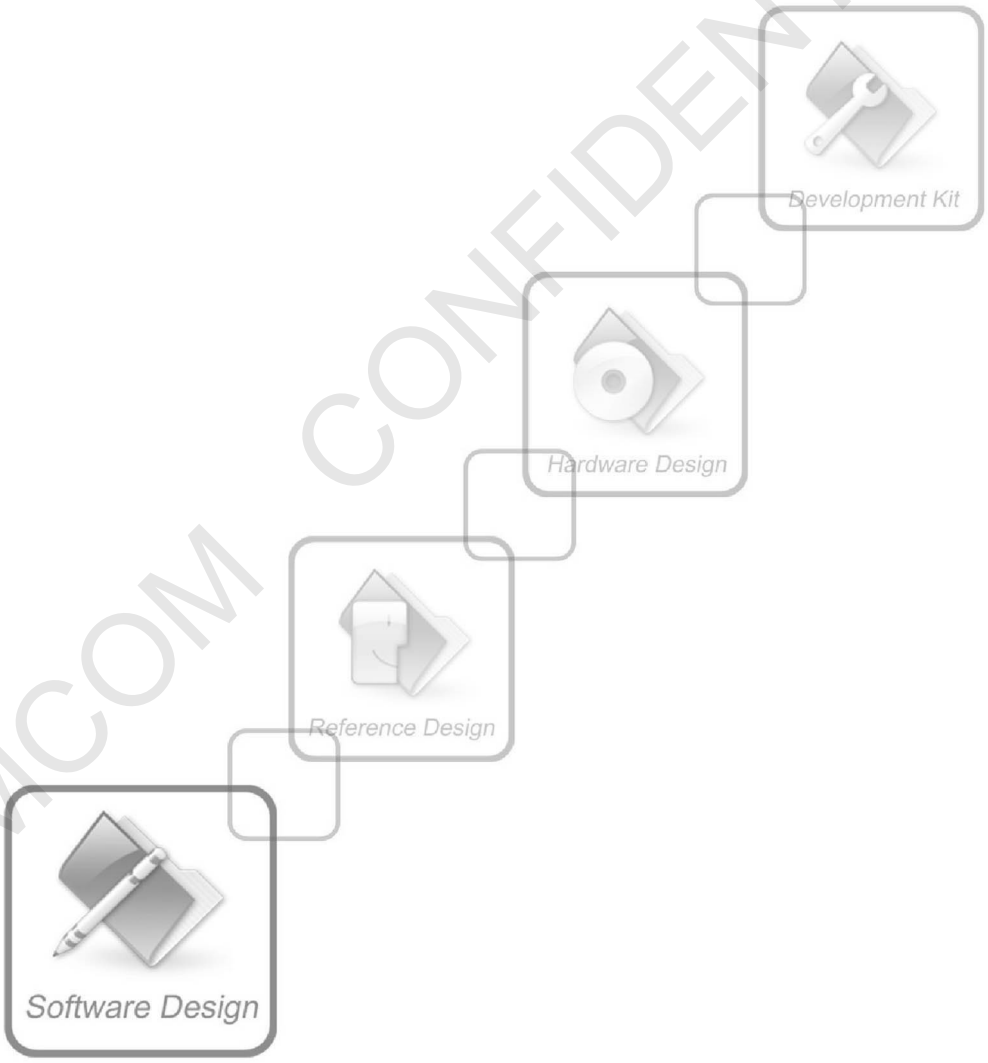
SIM5300E_JD_Application Note



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SCOPE

This document describes how to use the Jamming Detection function of SIM5300E through AT commands.

Examples are also given for reference.

This document can be used for SIM5300 serial modules, like SIM5300E.

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1. DISABLE JAMMING DETECTION

Demonstration	Syntax	Expect Result
Switch off jamming detection.	AT+SJDR=0	OK
Query status.	AT+SJDR?	
Jamming detection is disabled currently.		+SJDR: 0

2. ENABLE JAMMING DETECTION

Demonstration	Syntax	Expect Result
Enable jamming detection, the status can be only queried by reading command.	AT+SJDR=1,0	OK
In a jamming environment.		
Query status.	AT+SJDR?	
Jamming is detected.		+SJDR: 1,0,255,0,1
In normal condition.		
Query status.	AT+SJDR?	
No jamming.		+SJDR: 1,0,255,0,1
Enable jamming detection, the status will be reported via URC periodically.	AT+SJDR=1,1	OK
The URC will be reported automatically every 3 seconds		+SJDR: JAMMING DETECTED *//Jamming is detected* … +SJDR: NO JAMMING *//No jamming* … +SJDR: INTERFERENCE DETECTED *//Interference is detected* … +SJDR: NO JAMMING *//No jamming* …

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Enable jamming detection, the threshold is 255, and the URC is reported only when jamming status is changed.	AT+SJDR=1,1,255,1	
The URC will be reported automatically only when the status changed.		+SJDR: JAMMING DETECTED *//Jamming is detected* +SJDR: NO JAMMING *//No jamming* +SJDR: JAMMING DETECTED *//Jamming is detected* +SJDR: NO JAMMING *//No jamming* +SJDR: INTERFERENCE DETECTED *//Interference is detected* +SJDR: NO JAMMING *//No jamming* +SJDR: INTERFERENCE DETECTED *//Interference is detected.*
Enable jamming detection, the threshold is 255, and the URC is reported every 3000ms.	AT+SJDR=1,1,255,0	OK
The URC will be reported automatically every 3 seconds.		+SJDR: JAMMING DETECTED *//Jamming is detected* … +SJDR: NO JAMMING *//No jamming* … +SJDR: INTERFERENCE DETECTED *//Interference is detected* … +SJDR: NO JAMMING *//No jamming* …

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Check the status of the PIN to get the jamming result.	AT+SJDR=1,2	OK // in mode 2
the jamming would be indicated both through serial port and the PIN.	AT+SJDR=1,3	OK //in mode 3

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