

Neo_M660&M680 GPRS Module Jamming Detection Function Description



This function applies to **M680/M660 GPRS communication modules and supports M680_1232_LQS13000_V015/M660_1230_LQS13000_V015 and later versions.**

1 Function Description

On live networks, the GSM RSSI (received signal strength indication) varies with frequency bands of base stations. If some modules are placed close to jamming sources, the RSSI of each frequency will be higher. Our modules can detect jamming sources and report to MCU based on some algorithm and conditions. The function of sending jamming report to base stations over air has not been implemented yet, and you need to execute AT commands to query whether the module detects any signal jamming.

Our modules can detect the following frequency bands:

GSM 900 MHz

GSM 1800 MHz

PCS 850 / 1900 MHz

2 Commands

Description	To detect GSM signal jamming	
Format	AT+JAMMINGDETECT=<mod1>,<mod2>[,<mod3>]<CR> AT+JAMMINGDETECT?<CR>	
Parameters	<p><mod1>: Detection mode, ranging from 1 to 2.</p> <p>1: Detection of all channel</p> <p>2: Detection of partial channels (based on the value of <mod3>)</p> <p><mod2>: Strength of jamming to be detected, ranging from 1 to 3</p> <p>1: High</p> <p>2: Medium</p> <p>3: Low</p> <p>If you set the strength of jamming to be detected to low, it easier to detect weak jamming.</p> <p><mod3>: Channel selection, ranging from 1 to 2</p> <p>1: 900/1800 channel</p> <p>2: 850/1900 channel</p> <p>(This parameter is valid only when <mod1> is 2.</p>	
Return Value	See the following example.	
Example	AT+JAMMINGDETECT=1,1	Set detection parameters and enable jamming detection.

	OK AT+JAMMINGDETECT? OK	Query the detection. No jamming is detected.
	AT+JAMMINGDETECT=1,1 OK AT+JAMMINGDETECT? OK +JAMMING DETECKED	Detected jamming.
Remarks	Example shows combination of commands and the commands must be executed in sequence.	