

Neoway Tech

ON, OFF and RESET Operation Guide

Version 1.0

Let's enjoy the wireless life!

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Clarification

This guide is for system engineer, research engineer and test engineer.

As the upgrading of the product version or some other reason, we'll do some necessity updating to the content of this specification without advance notice.

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Shenzhen Neoway Technology Co.,Ltd can supply all the technological support. If you have any problem, please feel free to contact to the sales representative or send E-mail to these two mailboxes:

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1. ON:

The boot process of the module can be broadly divided into the following steps, as shown in Figure1.

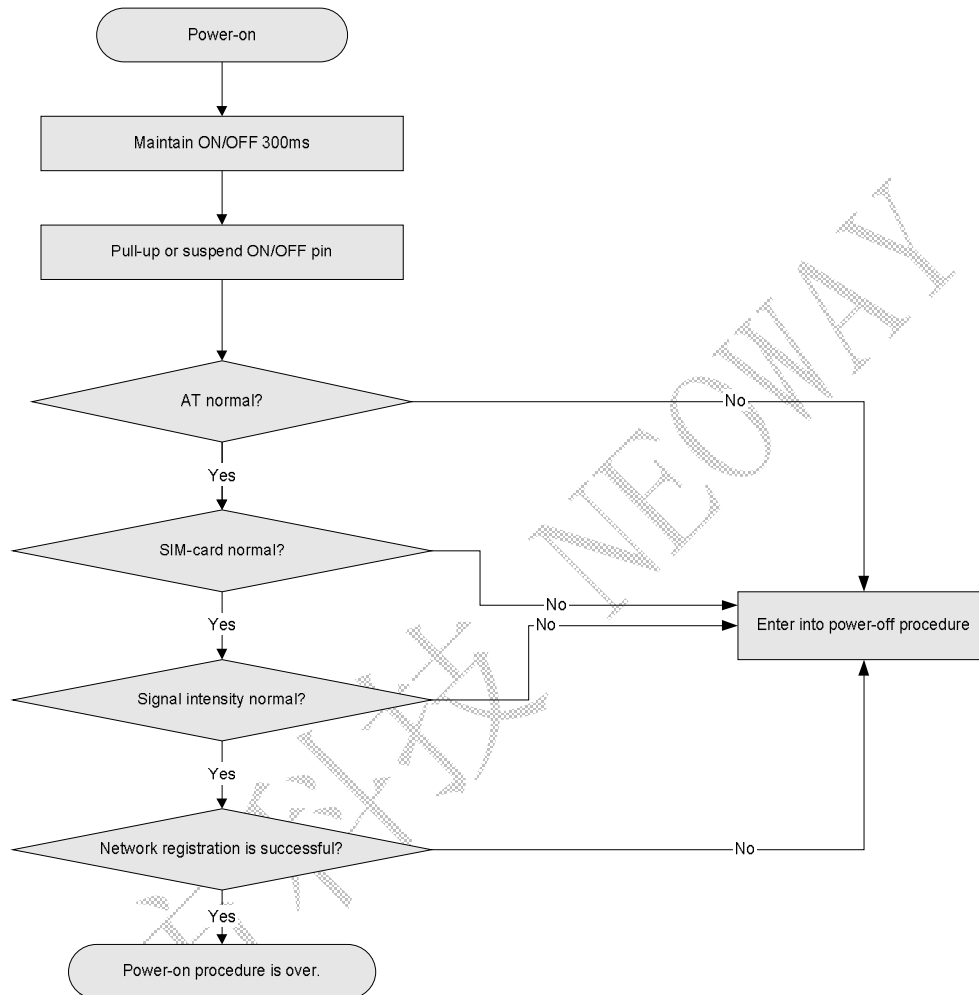


FIGURE 1 Power-on Procedure of the Module

Step1 Power supply, ensure the VBAT of the module has been supplied power (the requirement of voltage and pull-up, see the document)

Step2 input low Level to the IGT of the module, maintain 300ms, then input high Level or suspended.

Step3 input AT command, estimate whether the module works or not according to the back code, 10 times every second.

If abnormal, please shutdown the module. The particular process of this step is shown as Figure 2.

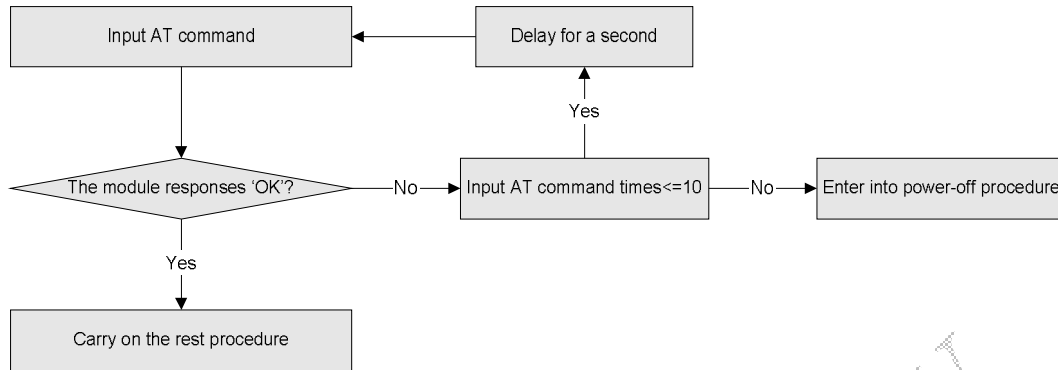


FIGURE 2 Flowchart of Testing of Software Working Status

Step4 input 'AT+CPIN', estimate the module finds the card or not according to the back code, 30 times every two seconds. Details of this step are shown as Figure 3:

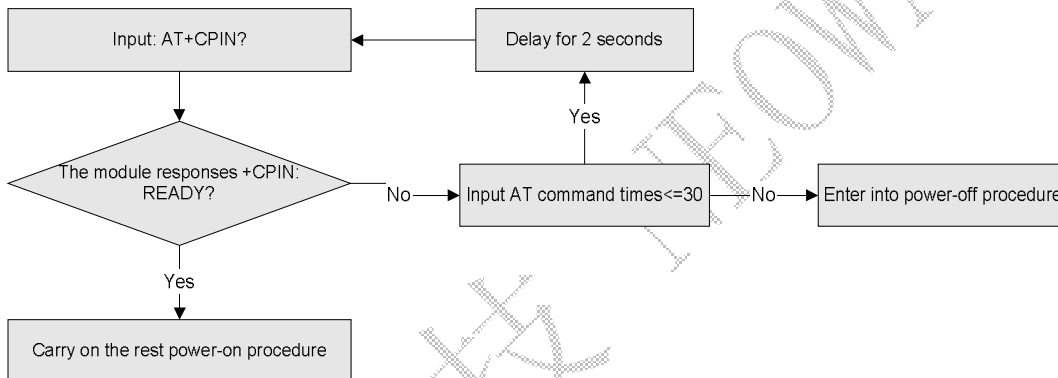


FIGURE 3 Flowchart of Finding Card

Step5 input 'AT+CSQ', estimate whether the signal strength of the network can meet the requirement or not (the signal strength <=31, effective value), 30 times every two seconds. The flowchart of this step is as shown in Figure 4:

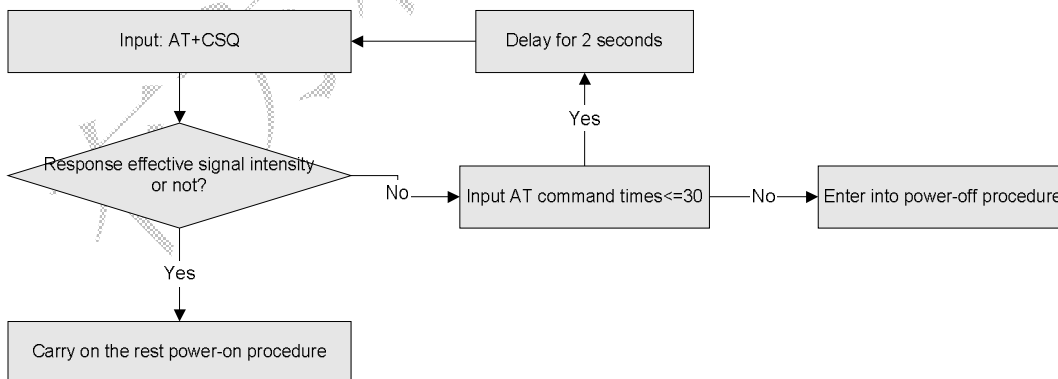


FIGURE 4 Flowchart of Testing Signal Intensity

Step6 input 'AT+CREG', estimate whether the module registers the network successful or not according to the back code, 30 times every two seconds. The flowchart of this step is shown as Figure 5. Back code '+CREG:0,1' or '+CREG:0,5' are effective.

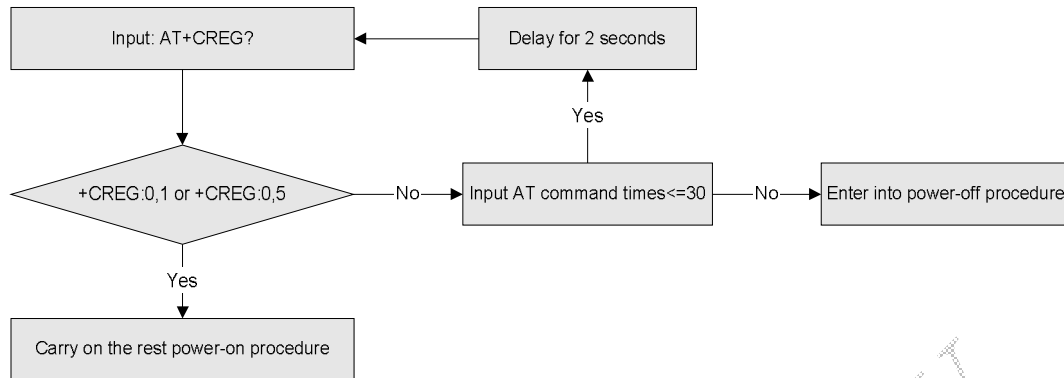


FIGURE 5 Flowchart of Testing of Network Registration

2. OFF

The module has different response to the command in different working status, accordingly to provide the users a common operational procedure, so that there is no need to estimate what status the module works currently.

Step1, input '+++', disconnect the data link.

Step2, input 'ATH', cut off the call or data service

Step3, input 'AT+CGATT=0', quit the GPRS link.

Step4, input 'AT+CPWROFF', shutdown the module by software, recommend to delay 5 seconds.

Step5, input low Level to the RESET pin of the module or implement power-off operation (when the users have the ability).

The shutdown procedure is shown as Figure 6.

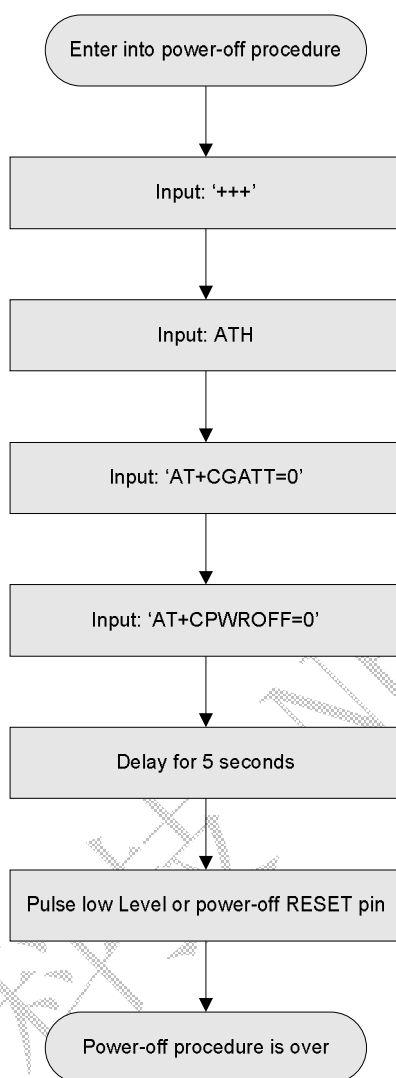


FIGURE 6 Flowchart of Power-off Procedure