

**Application Note  
GSM0000AN006**

**Enabler<sup>®</sup> - G Module  
Status Query**  
Revision 1.00

**Objective:** To provide modem settings that allow query capability for various modem status parameters.

### Equipment Needed:

In this example the requirements are:

- An Enfora, Inc. Enabler-G Modem loaded with firmware version 1.4.0 or above is required.
- A notebook or desktop computer with any version of Microsoft Windows that has HyperTerminal. If this hardware is not available, the user could use a DOS terminal emulation program or DUMB ASCII terminal.

### Procedures:

1. Start **HyperTerminal** and create a new session with the following settings:

Connection Name =	<b>Enabler-G Status Query Test</b>
Connect Using =	<b>Direct connect to COMx</b> , COMx is the communications port that the Enfora, Inc. Enabler-G Modem is physically attached to.
Bits Per Second =	<b>115200</b>
Flow control =	<b>None</b>

2. Type **AT** and press <**ENTER**> the modem should respond with **OK**. This will verify that you are communicating with the modem. If you cannot see characters entered on the screen, enter **ATE1V1**.
3. The following examples provide the AT commands and responses for setting modem parameters. For more information about the commands and response codes, see the *GSM0107AT001 – Enfora Enabler IIG AT Command Set..*
4. The following command checks to determine if the Enfora Enabler-G module has successfully registered with the GSM network.

**AT+CREG?** Get the registration status.

**+CREG: 0,n** Registration status where n =:  
**OK**

<b>0</b>	not registered, ME is not currently searching a new operator to register to
<b>1</b>	registered, home network
<b>2</b>	not registered, but ME is currently searching a new operator to register to
<b>3</b>	registration denied
<b>4</b>	unknown
<b>5</b>	registered, roaming



## Appendix A

RX Level	Range	
	(min) dBm	(max) dBm
0	< -110	-110
1	-110	-109
2	-109	-108
3	-108	-107
4	-107	-106
5	-106	-105
6	-105	-104
7	-104	-103
8	-103	-102
9	-102	-101
10	-101	-100
11	-100	-99
12	-99	-98
13	-98	-97
14	-97	-96
15	-96	-95
16	-95	-94
17	-94	-93
18	-93	-92
19	-92	-91
20	-91	-90
21	-90	-89
22	-89	-88
23	-88	-87
24	-87	-86
25	-86	-85
26	-85	-84
27	-84	-83
28	-83	-82
29	-82	-81
30	-81	-80
31	-80	-79
32	-79	-78
33	-78	-77
34	-77	-76
35	-76	-75
36	-75	-74
37	-74	-73
38	-73	-72

RX Level	Range	
	(min) dBm	(max) dBm
39	-72	-71
40	-71	-70
41	-70	-69
42	-69	-68
43	-68	-67
44	-67	-66
45	-66	-65
46	-65	-64
47	-64	-63
48	-63	-62
49	-62	-61
50	-61	-60
51	-60	-59
52	-59	-58
53	-58	-57
54	-57	-56
55	-56	-55
56	-55	-54
57	-54	-53
58	-53	-52
59	-52	-51
60	-51	-50
61	-50	-49
62	-49	-48
63	-48	> -48 dBm

## Revision History

Date	Rev	Author	Description
8/16/02	Draft	Matt Glover	Initial Draft.
9/3/02	1.00	Matt Glover	Initial Release.