KB Name	How to switch modem band on eWON with Q24		
Type	KB		
Since revision	5.2s0		
KB Number	KB-0001-0	Build	4
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Knowledge Base Information

How to switch modem band on eWON with Q24

Introduction

The Q24 Wavecom modem is a Quad band modem but it does not switch automatically.

In order to make it switch, a special command must be entered.

This is done in factory but can also be changed by a tricky procedure.

The 2 band ranges selectable here are:

900E – 1800 MHz	Rest of the world
850 - 1900MHz	US

What is the modem type

The hardware modem type must be

14,15,16,17

Modem command

The command used for switching is :

```
AT+WMBS=X
```

With X from this table:

```
0: mono-band mode 850 MHz
1: mono-band mode 900 extended MHz (900E)
2: mono-band mode 1800 MHz
3: mono-band mode 1900 MHz
4: dual-band mode 850/1900 MHz
5: dual-band mode 900E (extended) / 1800 MHz
6: dual-band mode 900E (extended) / 1900 MHz
```

The modem must be restarted after entering this command.

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What is the procedure for switching to 850-1900

Replace the Modem init string by:

```
AT&FE0&D2&C1+IFC=2,2;+CSNS=4;+WMBS=4
```

(currently you only have AT&FE0&D2&C1+IFC=2,2)

Then reboot the eWON. Wait until you have a network. If after 10 minutes
you still don't have a network, reboot once more and wait for network again.

Once you have the network, try the communication.

+WMBS=4 will select the 850/1900MHz,

The default WMBS value is 5.
The modem must be restarted after entering this command.