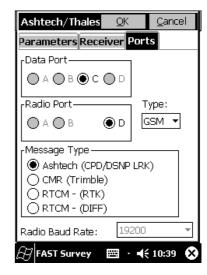| THALES NAVIGATION	Marketing & Technical Tips		
ZMax	N° 2003/03	Oct. 23th	By : Patrick BOURIAUD Checked : Denis BERNARD
Getting a GSM connexion between a Z-Max rover and a Base Station			

In the following procedure, it is assumed that a data SIM card has been inserted in the comm. Module slot as shown on the above picture, and the comm. Module has been plug to Z-Max unit again. Turn on both the Symbol and the Z-Max.

Run Fast Survey and go the Equip/Configure Rover/Ports tab and select the parameters as described above >>>>>>>>>

Click on OK

After sending the parameters into the Z-Max, the Symbol displays the GSM set up window.
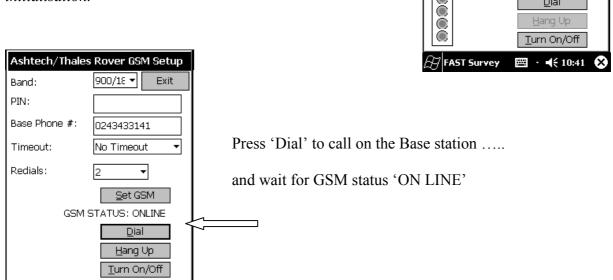
Select the right GSM band (900/1800 in Europe ; 1900 in USA).

Enter the Base station phone number.

Press 'Set GSM'

Once the GSM has been initialised, you can check the GSM signal strength and the GSM Status should be 'INIT'.

Note that it takes about 30 seconds for the GSM initialisation.

Press 'Dial' to call on the Base station …..

and wait for GSM status 'ON LINE'

Press Exit and Go to Equip/Receiver Utilities/Send Command to Receiver
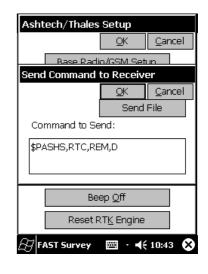
Two cases : A - Connexion to a base station broadcasting RTCM messages 18/19 and/or 20/21

Enter $PASHS,RTC,REM,D and press OK >>>>>>>>>>

You should see the Z_Max front panel communication light flashing green at the reception rate. The fix light must blink orange (float solution) then green (Fixed solution) after few second.

Receiver answer to the command

B – Connexion to a VBS base station asking for GGA messages.

Prepare a script file with the 3 commands :

$PASHS,NME,GGA,D,ON
$PASHS,NME,PER,10.0
$PASHS,RTC,REM,D

Store the script file in the Symbol Program Files/SurvCE/data folder.
In Receiver Utilities/Send Command to receiver, press 'Send File' and select the script file
You should see the Z_Max front panel communication light flashing green at the reception
rate. The fix light must blink orange (float solution) then green (Fixed solution) after few
second.

```
Review File
                        Close
File: \Program Files\SurvCE\
Results from sending script


Sent 1: '$PASHS,NME,GGA,D,ON
Response 1: '□$PASHR,ACK*3D'

Sent 2: '$PASHS,NME,PER,10.0
Response 2: '□$PASHR,ACK*3D'

Sent 3: '$PASHS,RTC,REM,D'
Response 3: '□$PASHR,ACK*3D'

FAST Survey      ▦  · ◀€ 3:11  ⊗
```

Receiver answers
to the command
script