GSM Base and Rover

Configuration Example

for TRIUMPH-1, SIGMA, and GISmore Receivers

Version 1.1

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GSM Base & Rover Configuration Example

Base Station Configuration

1. Start ModemVU.
2. Select *TRIUMPH-1X Internal Radio*[1] and click OK (Figure 2-1).

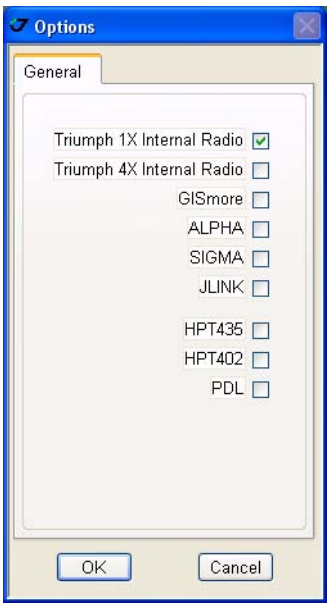

Figure 2-1. ModemVU. Options window

1. For SIGMA receiver select SIGMA; for GISmore select GISmore

3. Select the port receiver is connected to and click *Connect* (Figure 2-2).

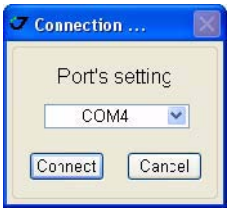

Figure 2-2. ModemVU. Connection

4. Set the *Radio* and *GSM* parameters to *OFF* and click *Apply.*
5. Click *Connect GSM* button (Figure 2-3).

Figure 2-3. ModemVU ALPHA Internal Radio selection

6. In the *Master/Slave* tab set the following parameters, and click *Apply* (Figure 2-4):

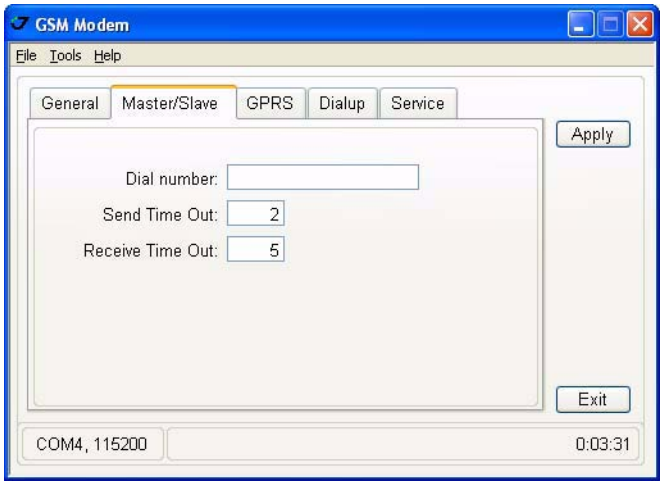

Figure 2-4. Master/Slave tab settings

- Dial number: empty
- Send Time Out: 2
- Receive Time Out: 5

7. In the *General* tab insert your SIM card PIN code (if needed), then set the mode to *Slave*, and click *Apply.*

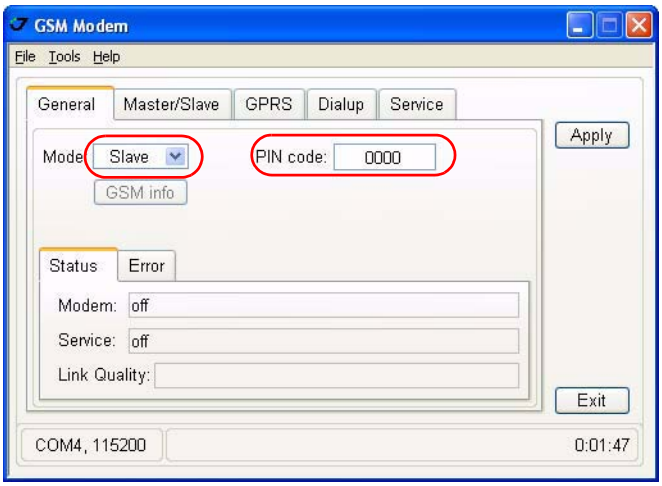

Figure 2-5. General tab settings

8. Wait until the modem will establish connection with net. The *Modem* status will be `ready` (at first `detecting`, `registration`, than `ready`).

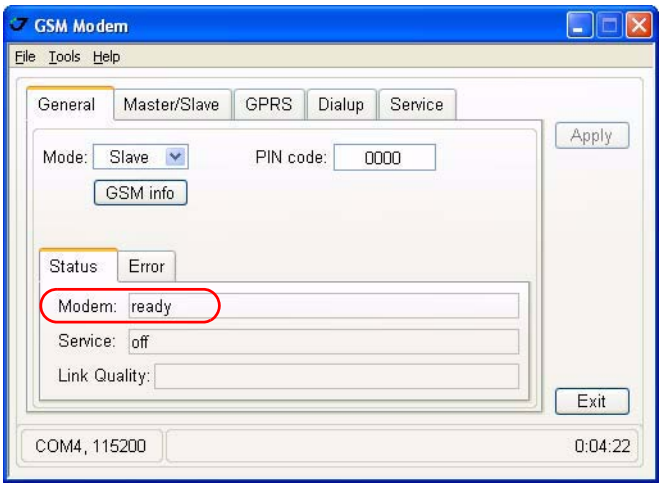

Figure 2-6. Modem status "ready"

9. Quit ModemVU by clicking *Exit* button.

10. Start TriVU. Select port the receiver is connected to and click OK (Figure 2-7).

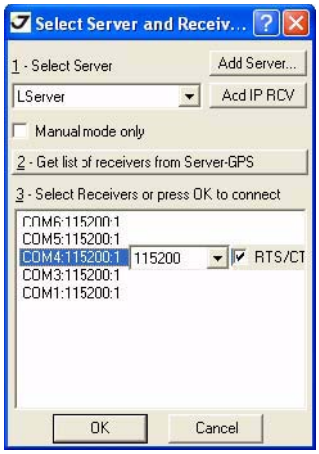

Figure 2-7. TriVU. Selecting port

11. Click *Configuration* ▸ *Receiver.*
12. In the *Base* tab click the *Get from receiver* button. Reference geodetic coordinates appear. Click *Apply* (Figure 2-8).

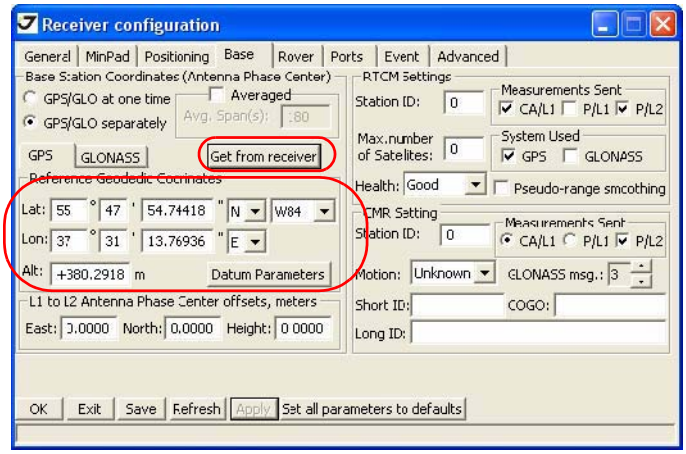

Figure 2-8. Base tab

13. In the *Ports* tab *Serial* subtab set the Port B *Output mode* to RTK CMR, and click *Apply*, then OK (Figure 2-9).

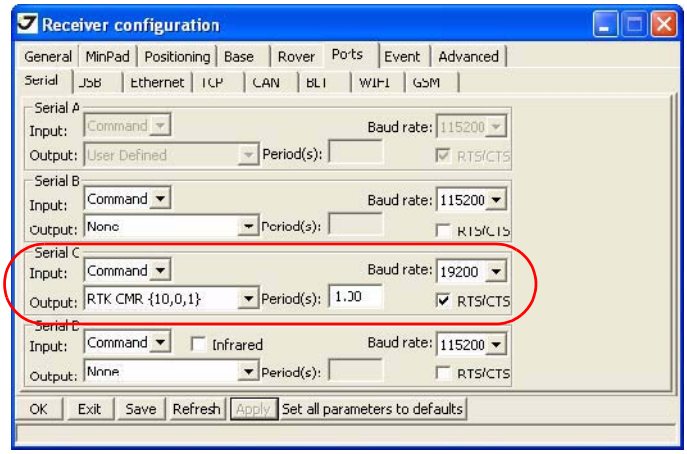

Figure 2-9. Rover tab

14. Quit TriVU.

Rover Configuration

1. Start ModemVU.
2. Select *Triumph 1X Internal Radio*[1] and click OK (Figure 2-10).

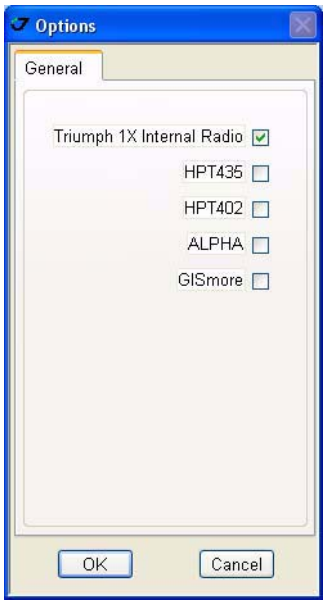

Figure 2-10. ModemVU. Options window

3. Select the port receiver is connected to and click *Connect* (Figure 2-11).

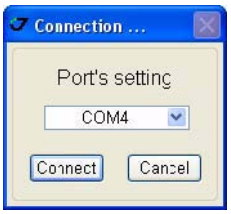

Figure 2-11. ModemVU. Connection

4. Set the *Radio* and *GSM* parameters to *OFF* and click *Apply.*

1. For SIGMA receiver select SIGMA; for GISmore select GISmore

5. Click *Connect GSM* button (Figure 2-12).

Figure 2-12. ModemVU TRIUMPH Internal Radio selection

6. In the *Master/Slave* tab set the following parameters, and click *Apply* (Figure 2-4):

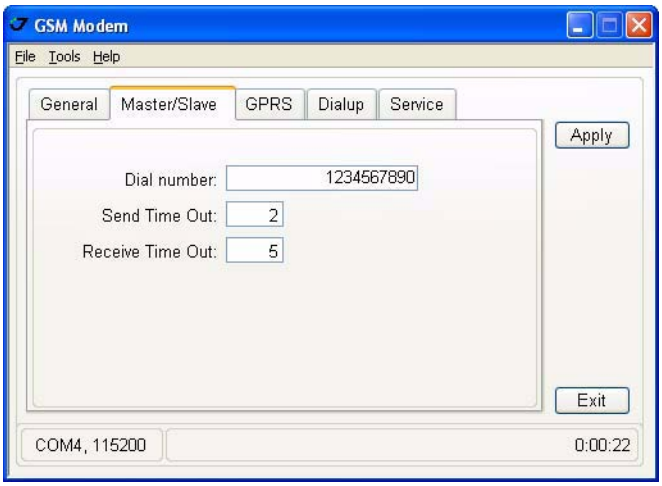

Figure 2-13. Master/Slave tab settings

- Dial number: phone number of the Base station's SIM card.
- Send Time Out: 2
- Receive Time Out: 5

7. In the *General* tab insert your SIM card PIN code (if needed), then set the mode to *Master*, and click *Apply*;

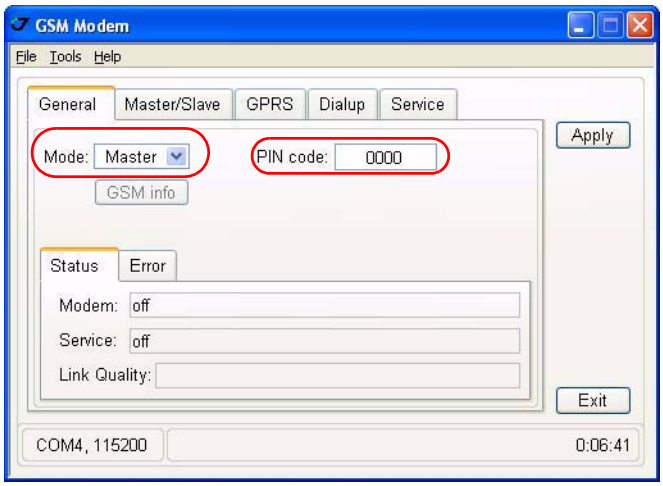

Figure 2-14. General tab settings

8. Wait until the modem will establish connection with net: the *Modem* status will be at first `detecting`, than `registration.` Wait until the connection with the Base will be established: the *Modem* status will be at first `dialing`, than `connected` with the connection baud rate value.

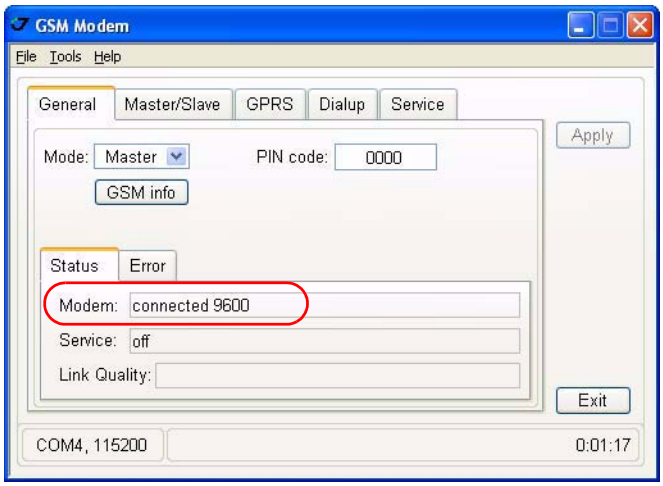

Figure 2-15. Modem status "connected"

9. Quit ModemVU by clicking *Exit* button.

10. Start TriVU. Select port the receiver is connected to and click OK (Figure 2-7).

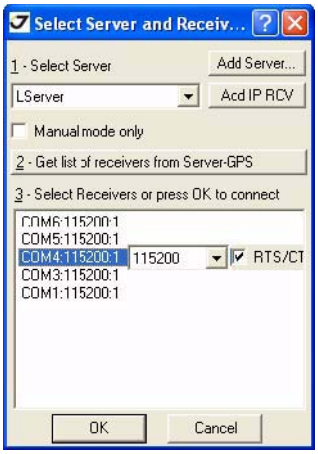

Figure 2-16. TriVU. Selecting port

11. Click *Configuration* ▸ *Receiver.*
12. In the *Positioning* tab set RTK fixed Mode, then click *Apply* (Figure 2-17).

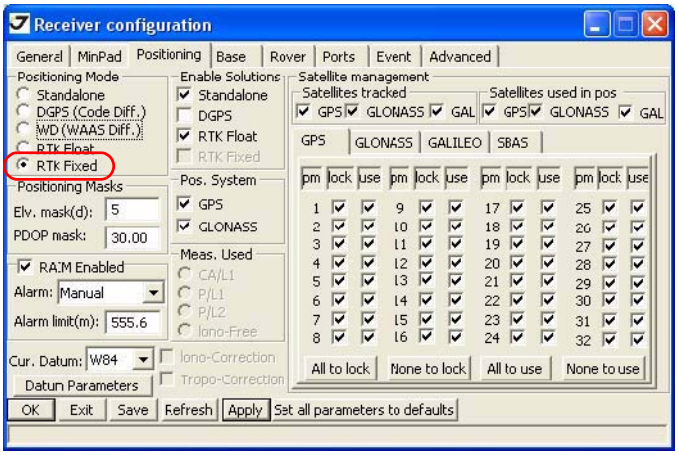

Figure 2-17. Positioning tab

13. In the *Rover* tab set RTK fixed mode (Figure 2-18), then click *Apply*:

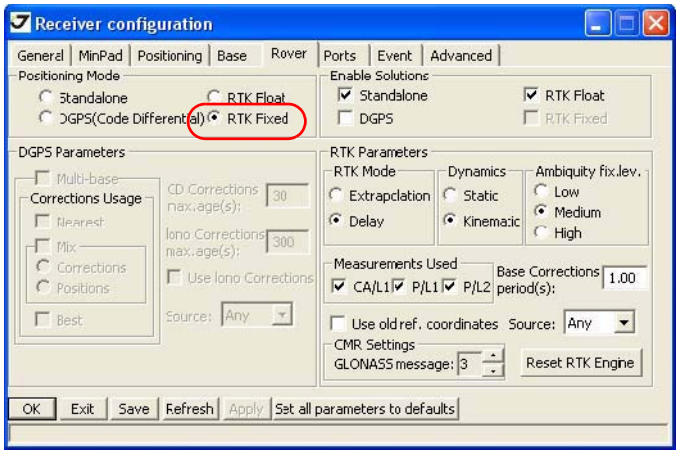

Figure 2-18. Rover tab

14. In the *Ports* tab *Serial* subtab set the *Input* mode for port C to CMR, then click *Apply* and OK (Figure 2-19).

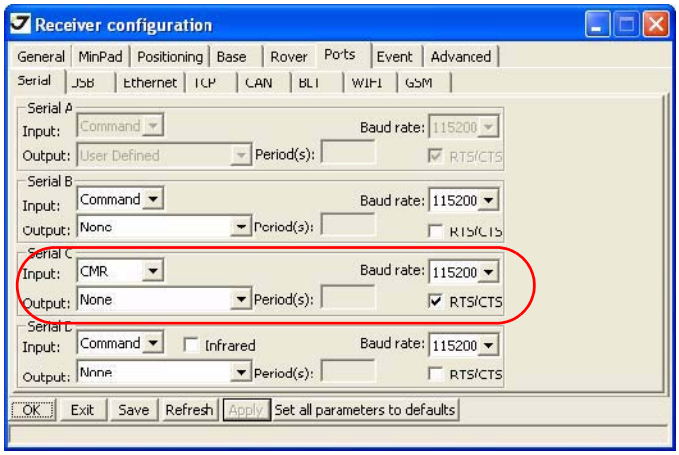

Figure 2-19. Ports tab

15. The receiver will obtain the RTK Fixed solution (Figure 2-20).

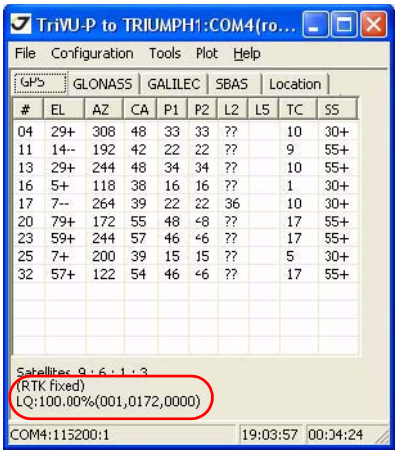

Figure 2-20. TriVU. RTK fixed

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