

Configuring Satellite radios in Leica Viva GNSS

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1. Satellite compatibility & Radio protocols.

Satellite radios are configurable to be used with any other branded radio (i.e. Pacific Crest). So long as the frequencies/channel spacing is the same on both the base & rover, the protocol settings can be changed in the field to match a new unit. All Satellite radios are delivered with the Satel3AS protocol set as default.






2. Satel Easy Pro 35W radios (GS15/GS14/GS10/GPS1200)

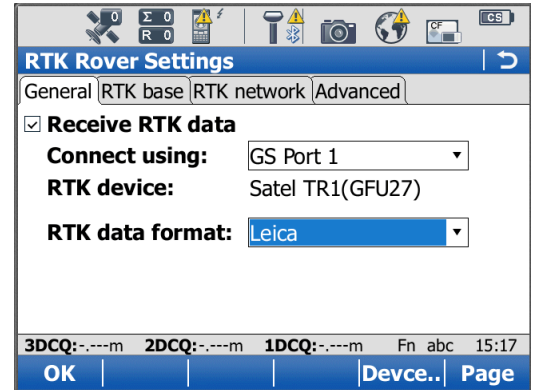
In SmartWorx Viva, go to 'Instrument' -> 'Connections' -> 'All other connections'. Under the 'GS connections' tab, select 'RTK rover' then press F3.'edit'. (If using a GPS1200: 'Config' -> 'Interfaces' -> 'Real-time')

Select the GS port where the data cable from the Satel is connected to ('GS Port 1' or 'GS Port 2').

Press F5.'Device' and select '**SATEL TR1(GFU27)**' as the device (you can also tap 'edit' to confirm that the baud rate is 19200) . Press OK to confirm, and then OK again to return to the connection settings screen.

Press F4.'Cntrl' to change the radio channel or test the connection with the base.

To change the protocol between PacCrest-GMSK and Satel, press the  button on the Satel Easy Pro, to enter the Config. Then use the  button to scroll to the 'Radio Settings', then  to confirm. Use the  button to scroll to compatibility, then  to confirm on either PacCrest-GMSK or Satel3AS. *Note that the PacCrest GMSK needs to be set as the second option in the initial radio programming via PC.*

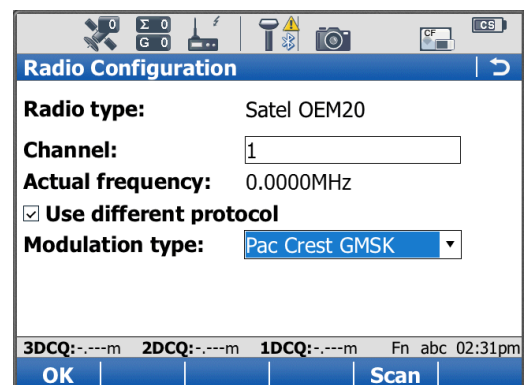
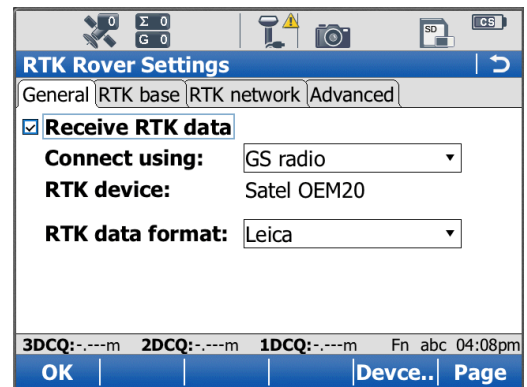


3. GS14 Satel OEM20 internal radio

In SmartWorx Viva, go to 'Instrument' -> 'Connections' -> 'All other connections'. Under the 'GS connections' tab, select 'RTK rover' then press F3.'edit'.

For the internal GS14 modem, the 'connect using' field should read 'GS radio'. Press F5.'Device' to select the **Satel OEM20**. This is the internal GS14 radio. Press OK to confirm, then OK again to return to connection settings.

Press F4.'Cntrl' to change the radio channel or test the connection. You can also configure the radio to use the Pac Crest GMSK protocol instead of the Satel 3AS by selecting the check-box 'Use different protocol' and then selecting Pac Crest GMSK, and then OK.

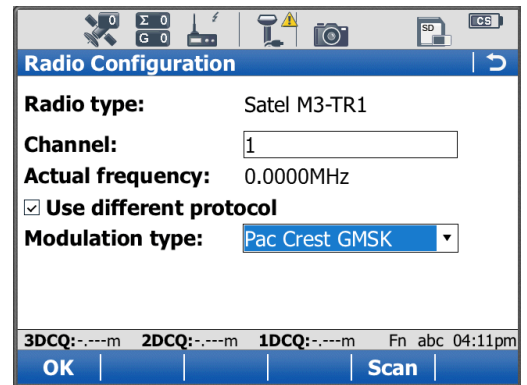
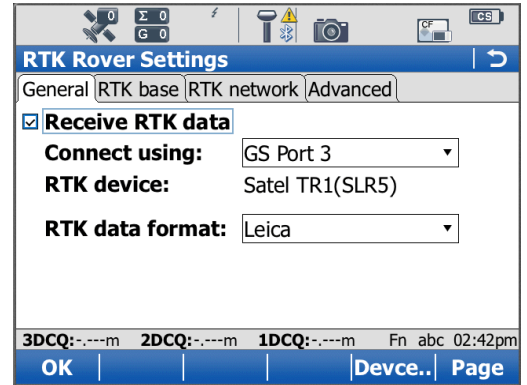


4. SRL5 Satellite M3 TR1 Slot-in-radio for GS15

In SmartWorx Viva, go to 'Instrument' -> 'Connections' -> 'All other connections'. Under the 'GS connections' tab, select 'RTK rover' then press F3.'edit'.

Set the 'connect using' field to 'GS Port 3' (this is the slot in port). Press F5.'Devce' and select the '**Satel TR1(SLR5)**' as the device, then OK, and OK again to return to the 'connection settings' screen.

Press F4.'Cntrl' to change the radio channel or test the connection. You can also configure the radio to use the Pac Crest GMSK protocol instead of the Satel 3AS by selecting the check-box 'Use different protocol' and then selecting Pac Crest GMSK, then OK.



5. GFU27 TA-13 for GS10

In SmartWorx Viva, go to 'Instrument' -> 'Connections' -> 'All other connections'. Under the 'GS connections' tab, select 'RTK rover' then press F3.'edit'. (If using a GPS1200: 'Config' -> 'Interfaces' -> 'Real-time').

Set the 'connect using' field to 'GS port 1' or 'GS Port 2', depending on where the radio is clipped into. (This will be clip-on on the GPS1200 SmartRover).

Press F5.'Devce' and select the '**Satel TR1(GFU27)**' as the device, then OK, and OK again to return to the 'connection settings' screen.

Press F4.'Cntrl' to change the radio channel or test the connection. You can also configure the radio to use the Pac Crest GMSK protocol instead of the Satel 3AS by selecting the check-box 'Use different protocol' and then selecting Pac Crest GMSK, then OK.

