VHF - UHF Transceiver Option Sheet

How to use this Option Sheet:

1. Please fill-in this Option Sheet carefully. In case you have questions, we advise contacting ISISPACE prior to sending the Option Sheet at: sales@isispace.nl. Note that you are responsible to make sure the inputs you make are correct, since ISISPACE will produce the product accordingly, and shall not be responsible to verify your inputs or liable to provide refunds, make alterations or send a new product in case your input does not reflect your needs correctly.

2. Fill in the form digitally. You will need to have Adobe Acrobat reader installed (free download available at http://get.adobe.com/reader/)

3. Press the check button at the end to verify if your Option Sheet is complete.

4. Once you are ready, press the Enable Read Only button to prevent accidental changes, save the changes and send the digitally filled-in Option Sheet by email to your Sales Representative.

Customer Contact Information

Contact Name:	
Email Address:	
Phone Nr:	
Organization / Company / Institution	
Address:	
Address (Cont'd):	
Country:	

For ISISPACE Use – Leave Blank –

Order Confirmation:	
Allocated WO:	
Sales responsible:	
Project/Ref.:	

Hardware Configuration

The ISIS VHF/UHF transceiver is a SDR-based transceiver with configurable modulation schemes and data-rates. It includes a built-in antenna polarization switch drive and an external 10MHz input connection. This transceiver is fully compatible with ISIS on-board radios:

Frequency band(s) of operation

Option 1:

VHF uplink (145.8 – 146 MHz) + UHF downlink (435 – 438 MHz)

and UHF uplink (435 – 438 MHz) + VHF downlink (144 – 146 MHz)

Includes: Built-in LNA sequencer

Option 2:

VHF uplink (148 to 149.9 MHz) with UHF downlink (400.15 to 402 MHz)

Includes: 13.8V/500mA output connector for powering LNA

Power Plug

EU standard   USA standard   UK standard

Software Configuration

The ISIS VU Transceiver Software supports the following:

- Available downlink demodulation schemes and data-rates:
    - AFSK @ 1.2kbps;
    - BPSK @ 1.2, 2.4, 4.8, and 9.6 kbps; (also available with G3RUH scrambling)
    - FSK@ 1.2, 2.4, and 4.8 kbps; (also available with G3RUH scrambling up to 9.6 kbps)
- Available uplink modulation schemes and data-rates:
    - AFSK @ 1.2kbps;
    - FSK-G3RUH @ 2.4, 4.8, and 9.6 kbps.
- Available Data link layer protocol:
    - AX.25
- Data interfaces:
    - IQ data output,
    - Raw bytes output,
    - KISS input & output,
    - Binary input & output

External 10 MHz input

Enabled

When enabled, the ISIS VHF/UHF Transceiver uses the external 10MHz reference signal (made available via the '10MHz IN' connector) instead of its internal clock. Note: when 10 MHz input is enabled by software, there must be a 10MHz signal present on the socket to avoid a frequency offset.

Disabled

Additional comments