How to use this Option Sheet:

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

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

- 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.

- If you have any questions regarding this option sheet or the fill-in procedure, please do not hesitate to contact your Sales Representative for help.

Customer Contact Information

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

For ISIS Use – Leave Blank –

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

Applicable to TRXUV.REVB4.x

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Version:	1
Revision:	3

RF Configuration

Receiver

Uplink Center Frequency (400MHz – 450MHz):

Transmitter

Downlink Center Frequency (137MHz – 160MHz):

Software Configuration

Downlink Default Bitrate

AX.25 Call Signs

"From" Callsign (6 characters Max.)

"To" Callsign (6 characters Max.):

NOTE: *Article 19 of the ITU Radio Regulations states that "All transmissions shall be capable of being identified either by identification signals or by other means". The "From" callsign is typically used for the spacecraft identification, the "To" callsign is typically used for the Ground Station identification.*
Legislation may vary according to the country in which operations are performed, so check with your national radiocommunications administration to be sure.

Buffer Settings

Transmitter buffer settings   *Receiver buffer settings*

   Default (4 frames, 235bytes/frame)   *Default (16 frames, 64bytes/frame)*

   Alternative   *Alternative*

NOTE: *For Alternative Transmitter buffer sizes, please leave a note in the Additional Comment section detailing your request. ISIS will review your request and contact you as soon as possible.*

I2C Protocol Settings

Receiver Address   *Transmitter Address*

   Default (0x50)   *Default (0x51)*

   Alternative   *Alternative*

Alternative Receiver Address (0x##)   Alternative Transmitter Address (0x##)

I2C Watchdog   *Watchdog Time (35s – 65535s)*
   Enabled
   Disabled (Default)

Applicable to TRXUV.REVB4.x

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Transmitter Startup behavior

Transmitter OFF

The unit shall not transmit any signals at startup

Autonomously repeating beacon

The transmitter will broadcast a predefined beacon (fixed message).

FM to DSB transponder

Loopback mode, transmitter transmits the demodulated FM audio from the uplink, allowing the TRXUV to be used as a single channel transponder (only available when unit is operated on amateur frequencies).

Beacon settings

Beacon type:

CW (Morse)   AX.25

CW Rate

Default (15 words per minute)

Alternative (words per minute):

Beacon Custom Message (Optional):

Interval between consecutive beacon messages (1s – 65535s)):

Delay after power ON (0s – 255s):

Applicable to TRXUV.REVB4.x

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Electrical Configuration

Onboard I2C pull-up resistors

Fitted

Not fitted (default)

Onboard I2C pull-up resistors value

3.3kOhm (default)

Alternative (value in kOhm)

CSKB Pin-out

I2C Pin-out

I^2C *Clock (SCL)*

H1-43 (Default).

H1-21 (Alternative).

I^2C *Data (SDA)*

H1-41 (Default).

H1-23 (Alternative).

Main power input

H2-45 (Default).

H2-46 (Default).

H2-47 (Alternative).

H2-48 (Alternative).

Other

H1-51   Direct output of command receiver audio

Not compatible with GOMSPACE EPS system

GPIO

GPIO TX (H1-46)

GPIO RX (H1-45)

.

Applicable to TRXUV.REVB4.x

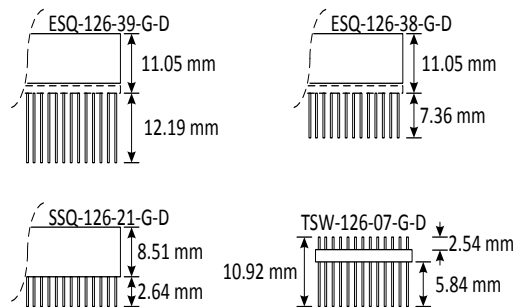|	
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Mounting holes grounding

    Holes Grounded (default).

    Holes NOT Grounded.

NOTE: *By default, the mounting holes are grounded by means of a 0Ohm resistor. For alternative grounding schemes, please leave a comment on the Additional comment section. ISIS will review your request and contact you as soon as possible*

Connector Type and Placement

CSKB Connector

| ESQ-126-39-G-D | 11.05 mm | 12.19 mm | ESQ-126-38-G-D | 11.05 mm | 7.36 mm |
| SSQ-126-21-G-D | 8.51 mm | 2.64 mm | TSW-126-07-G-D | 2.54 mm | 10.92 mm | 5.84 mm |

Note: The middle reference point is the top of the board. The TRXUV board is 1.7mm thick.

Default   Samtec ESQ-126-38-G-D

Standard Stack Through.

Other CSKB components possible on top and bottom.

Alternative

(Additional cost associated, please contact your sales representative for further information).

Alternative Stack Through.   Samtec ESQ-126-39-G-D

Other CSKB components possible on top and bottom.

Stack Termination Bottom.   Samtec SSQ-126-21-G-D

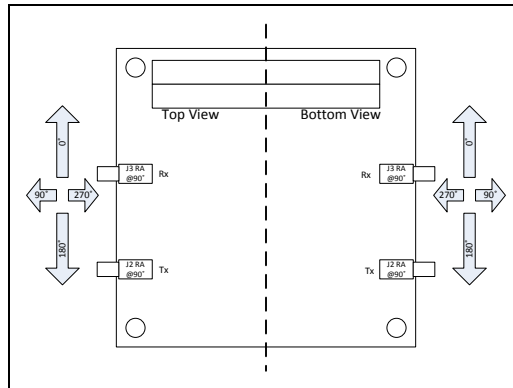*No other CSKB components possbile below the ISIS-TRXUV.*

Stack Termination Top.   Samtec TSW-126-07-G-D

No other CSKB components possible above the ISIS-TRXUV.

Applicable to TRXUV.REVB4.x

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RF Connectors

VHF Transmitter Connector Mounting position and orientation (type is MMCX female)

Default
- Top mount,
- Angled,
- 90^0 orientation.

Alternative
(additional cost associated, please contact your sales representative for further information).

Top Mount	Bottom mount
Straight	Straight
Angled, 0^0 orientation	Angled, 0^0 orientation
Angled, 270^0 orientation	

UHF Receiver Connector Mounting position and orientation (type is MMCX female)

Default
- Top mount,
- Angled,
- 90^0 orientation.

Alternative
(additional cost associated, please contact your sales representative for further information).

Top Mount	Bottom mount
Straight	Straight
Angled, 0^0 orientation	Angled, 0^0 orientation
	Angled, 180^0 orientation
	Angled, 270^0 orientation

Additional Comments

Applicable to TRXUV.REVB4.x

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