Antenna System Option Sheet

How to use this Option Sheet:

- Please fill-in this Option Sheet carefully. In case you have questions we advise contacting ISIS 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 ISIS 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.

- 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.

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 from ANTS.REVD

Doc. ID:	ISIS.ANTS.OS.001
Doc. Title:	Antenna System Option Sheet
Version:	2
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RF Configuration

Antenna System Type

Monopole   Dipole   Turnstile   Other

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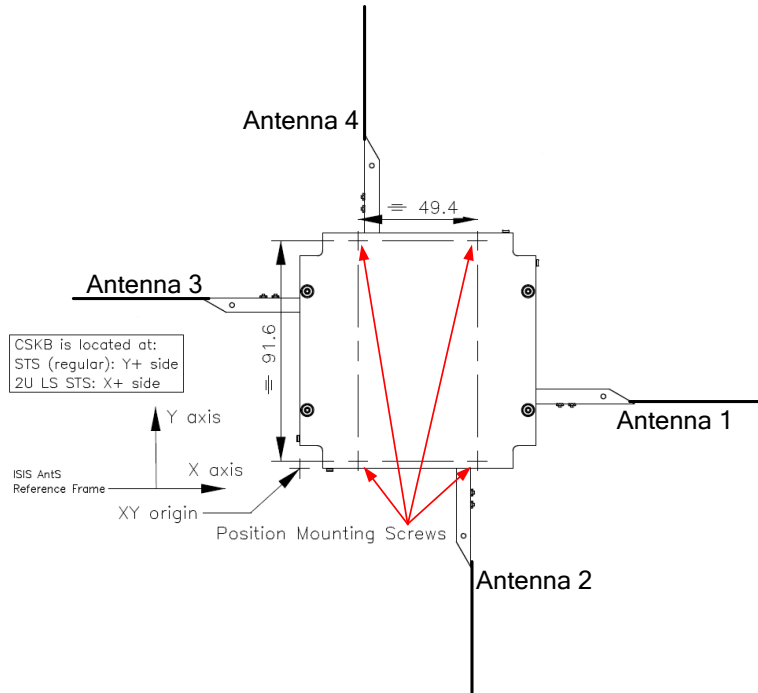
Preliminary RF Tuning

Preliminary Tuning Structure Size[1]

| 1U | 2U | 3U | 6U | Other |

Alternative Structure size

Mounting position

| Top | Bottom | Other |

Alternative Mounting position

Please provide a short description of the alternative Mounting position in the text field below.

Please provide any additional relevant information regarding the alternative mounting position, such as drawings and CAD models, as a separate attachment (zip file) accompanying this option sheet.

Do you have other Deployable systems in your satellite?[2]

Please provide a short description of the Deployable Systems present in your satellite in the text field below.
Please provide any additional relevant information regarding the Deployable Systems present in your satellite, such as drawings and CAD models, as a separate attachment (zip file) accompanying this option sheet.

NOTE: Due to RF performance limitations, it is not advised to fit the UHF antenna elements parallel to other deployable systems. Please contact ISIS sales team for further information.

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[1] The preliminary tuning is performed in the structure size and location of choice. However, please take into account that this preliminary tuning is performed as a standalone activity in an empty structure.

Please contact the ISIS sales team for further information regarding integrated Antenna tuning possibilities

[2] For example: other deployable antenna systems, booms, sails, external sensors, etc.

Electrical Configuration

Supply Voltage

3V3 (default)   5V

MicroController Interface

I²C Control type

Single Bus (default)   Dual Bus

Primary I²C address[3]   *Redundant I²C address[4]*

Default (0x31)   Default (0x32)

Alternative   Alternative

I²C watchdog

The I²Cwatchdog is implemented for safety reasons. It works in the following manner: if the ANTS does not receive any command from the main OBC for a given duration, the system will reset itself. This safety measure can be disabled by the user if required. This feature cannot be changed without having the system reprogrammed by ISIS.

I2C watchdog enabled, timeout of 60 seconds (default).

I²C watchdog enabled, user defined seconds.

Value must be equal or greater than 35s and smaller than 65535s. Any values outside this range need to be reviewed and agreed upon by ISIS.

Timeout (s):

I²C watchdog disabled

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[3] 7 bit address

[4] 7 bit address

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Mechanical Configuration

Are you using a Pumpkin Structure

No   Yes

In case of using a Pumpkin structure, please select required mounting adaptor[5]

Pumpkin CubeSat revC Top

Pumpkin CubeSat revD Top

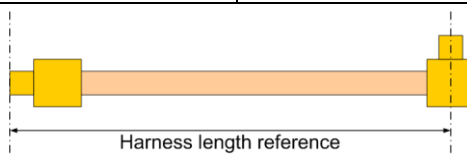Pumpkin CubeSat revC Bottom

Pumpkin CubeSat revD Bottom

None

Harness (Optional)

Is the Harness set required?

Harness – Configuration

	Antenna Side		Radio Side		
Harness #	Connector Type	Connector Orientation	Connector Type	Connector Orientation	Length (mm)

Harness length reference

Additional Comments

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[5] To be purchased separately

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