

# PRODUCT OPTION FORM

## DSA - Deployable Solar Array



### How to use this Option Form:

- 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

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**Information Contact Name:**

**Email Address:**

**Phone Nr:**

**Organization / Company /  
Institution**

**Address:**

**Address (Cont'd):**

**Country:**

**For Internal Use – Leave blank**

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**Order Confirmation:**

**Work Order:**

**Sales responsible:**

**Project/Ref.:**

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### 1. Intended Use:

|                                                                                              |                                                                                                                    |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Flight Model</b><br>For use in flight model, testing, certification and integration ready | <b>Engineering Model:</b><br>For use in engineering model, not space flight for testing and certification purposes |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

### 2. Spacecraft configuration:

|    |    |    |
|----|----|----|
| 1U | 2U | 3U |
|----|----|----|

### 3. Solar Panels configuration:

Each solar panel in the solar array can have solar cells on one side or both sides

|                        |                       |
|------------------------|-----------------------|
| 1 panel, double sided  | 1 panel, single side  |
| 2 panels, double sided | 2 panels, single side |
| 3 panels, double sided | 3 panels, single side |

### 4. Quantity (How many DSA are you ordering :)

### 5. Solar Cell configuration:

Choose between high yield or low yield solar cells, both have flight heritage and are tested to ensure the minimum yield specified below

|                                                              |                                                                           |
|--------------------------------------------------------------|---------------------------------------------------------------------------|
| Low cost, space grade solar cells (yielding 3.75W per array) | GaAs Triple-junction solar cells AzurSpace 3G-30 (yielding 12W per array) |
|--------------------------------------------------------------|---------------------------------------------------------------------------|

### 6. Options configuration:

Options available to be preinstalled on your DSA, the NEMEA shield will add a thickness of 2 mm to each DSA internal wall, Please note that any of this options are sold separately and might incur on additional cost. Contact your sales representative for further information regarding pricing.

|                                                                                        |                                                                                             |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Integrated MT1/T Magnetorquer<br><br>Temperature sensor, LM50C                         | Integrated NEMEA Anti Radiation (EM, High Gamma, X-Ray, Alfa, Beta and slow neutron) shield |
| Sun Sensor, Hamamatsu Two Dimensional Position Sensitive Detector (PSD) Type S 5990-01 | Sun Sensor, Hamamatsu Two Dimensional Position Sensitive Detector (PSD) Type S 5991-01      |

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### 7. Connector configuration:

| DSA                                       | MT1T Magnetorquer (if applies)        |
|-------------------------------------------|---------------------------------------|
| 3 connectors, 4 pins ea. Molex 51021-0400 | 1 connector, 2 pins, Molex 51021-0200 |
| Include board side male connector         | Include board side male connector     |
| 3 connectors, 4 pins ea. Molex 87439-0401 | 1 connector, 2 pins, Molex 87439-0200 |
| Include board side male connector         | Include board side male connector     |

### 8. Cable length in millimeters

### 9. Scaffold configuration:

|                                                                                                             |                    |
|-------------------------------------------------------------------------------------------------------------|--------------------|
| Include titanium CP-2 scaffold, custom configuration (customer must provide precise 3D model and blueprint) | No scaffold needed |
|-------------------------------------------------------------------------------------------------------------|--------------------|