UARX Space's
Launch & Transportation Services
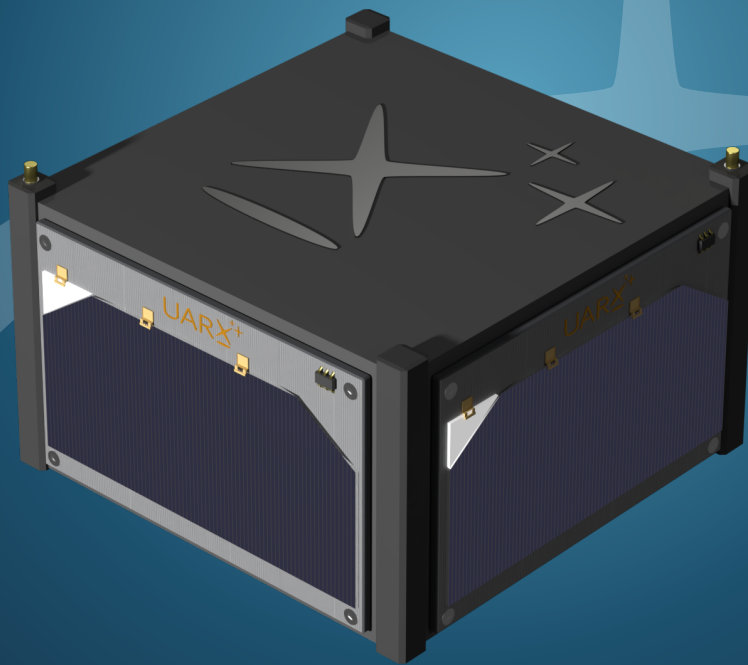
Allocation Quick Specs - 0.5U CubeSat

www.uarx.com

Your ride in Space.

25.5 (x4)
MAX

Ø 86.0
MAX

6.5
MIN

+Y

+X

87.0
MAX

50.0
(x4)

87.0 MAX

100.0

25.5 (x2)
MAX

+Y

100.0

+Z

86.0
MAX

50.0
MAX

56.8 or 61.0
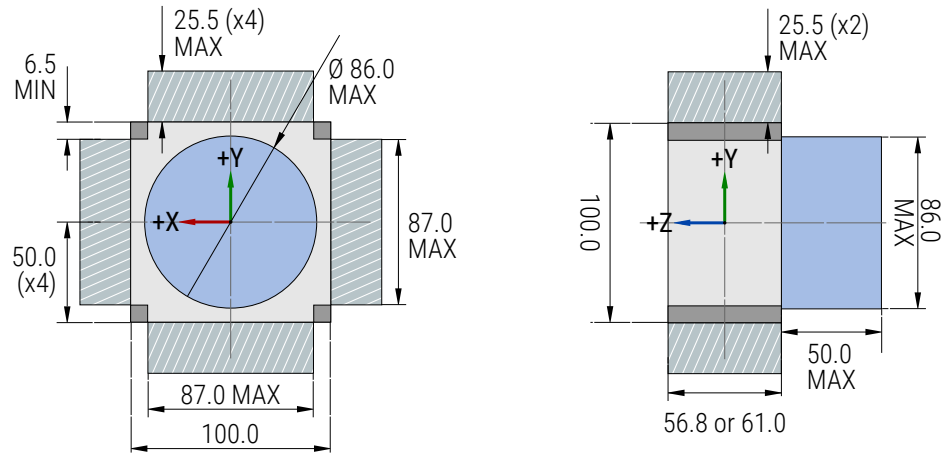
Main spacecraft body

Protrusion allowance

CubeSat rails

"Tuna Can" allowance*

All dimensions are in mm.
Tolerance ±0.1 mm.

RAMI deployers accept two lengths of CubeSats, the standard with 56.8mm, and the XL with 61.0mm. Customers can take advantage of the extra-room RAMI provides, including the 25.5mm of protrusions allowance in the dynamic envelope.

Technical Specification	0.5U	0.5U-XL
Maximum payload mass [kg]	1.0	1.0
Number of Tuna Can available	1*	1*
Surface roughness [µm]	<1.0	<1.0
Maximum center of gravity deviation[1] in X [mm]	±20.0	±20.0
Maximum center of gravity deviation[1] in Y [mm]	±20.0	±20.0
Maximum center of gravity deviation[1] in Z [mm]	±10.0	±10.0

[1]Deviation is measured from the geometric center of a 0.5U spacecraft.

*When mounted on the push plate of the deployer. Only available for one spacecraft in the stack.

x2 = 1U   x4 = 2U   x6 = 3U
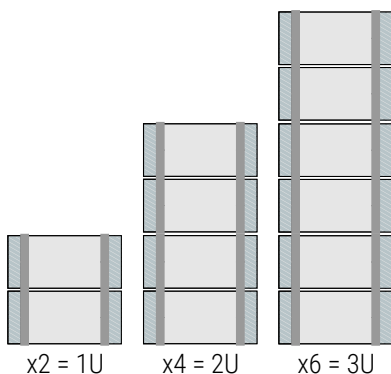
Example of flight configurations for 0.5U CubeSats

CubeSats using a 0.5U form factor may be combined with other spacecraft in the deployer to occupy the assigned bay. The configuration ultimately depends on the manifest and final flight configutation, being possible to combine them with other 0.25U, 0.5U, 1U, 1.5U, or 2U CubeSats.

UARX Space recommends a configuration with enough number of spacecraft that can ensure instant accommodation on a dedicated bay, so the customer will prevent having delays on the assigned spot to fly.

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space solutions