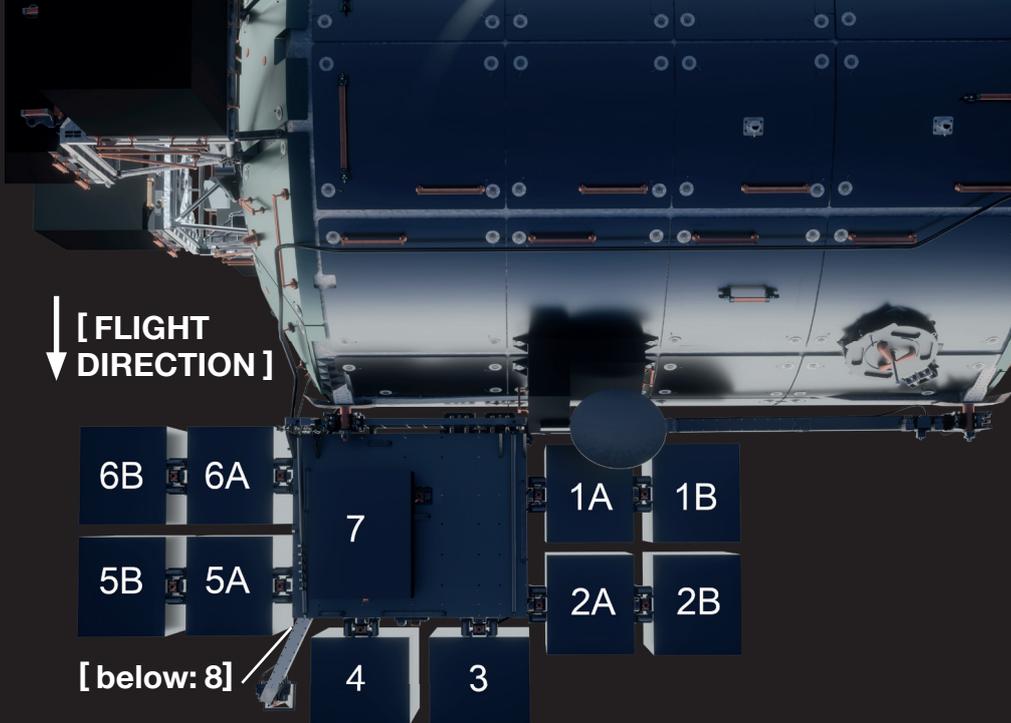# BARTOLOMEO

Bartolomeo
Your All-in-One Space Mission Service

Bartolomeo enables the hosting of external payloads in low-Earth orbit, on-board the International Space Station ISS. Application areas include (but are not limited to) Earth observation, robotics, material science or astrophysics; payloads can be hosted for institutional and private organizations alike.

Named after the younger brother of Christopher Columbus, the Bartolomeo platform is attached to the European Columbus Module and operated by Airbus. With its All-in-One Mission Service, the company provides all mission-related elements and can even assist when it comes to building the actual payload.

Operating a mission on Bartolomeo is a highly cost and time-efficient way of bringing a payload into Space. Customers benefit from Airbus Defence and Space's 10-year experience in integrating and operating payloads on the ISS: Users hence fully concentrate on their individual Space mission, without needing to develop a complex Space system or a deep understanding of the ISS.
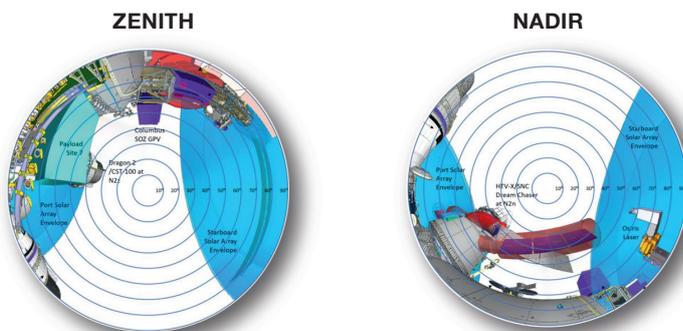
AIRBUS

[**FLIGHT DIRECTION**]

6B 6A

5B 5A

7

[below: 8]

4   3

1A 1B

2A 2B

Standard Payload Sizes and Resources

Item	Single Payloads	Double Payloads
Field of view	• All Nadir and Zenith view • Some slots Ram view	• 1 slot Zenith, Ram view • 1 slot Nadir, Ram view • 2 slots Nadir and Zenith view • Some slots Ram view
Geometric envelopes[1]	up to 700 x 800 x 1,000mm³	up to 800 x 1,500 x 1,000mm³
Mass per payload[2]	up to 450kg	
Power per payload	• 120 Vdc operational power up to 800 W from COL • Survival power for heaters	• 120 Vdc operational power up to 800 W from COL • Survival power for heaters
Data rate (overall)	up 2TByte per day through own COMMS	
Robotic interface	included in the GOLD-2 interface	
Return capability	Yes, if airlock compatible	No

[1] Geometric envelope constrained by JEM-A/L dimensions, envelope can be extended if payload is launched unpressurized or NR-A/L used.

[2] Overall payload mass budget of the platform to be taken into account.

Field of View

ZENITH

NADIR

SLOT	NADIR	ZENITH	RAM
1A	🟢	🟢	🔴
1B	🟢	🟢	🔴
2A	🟢	🟢	🟡
2B	🟢	🟢	🟡
3	🟢	🟢	🟡
4	🟢	🟢	🟡
5A	🟢	🟢	🟡
5B	🟢	🟢	🟡
6A	🟢	🟢	🔴
6B	🟢	🟢	🔴
7	🔴	🟢	🟢
8	🟢	🔴	🟡