

# SPACE TRANSPORTATION. (RE)INVENTED.

InOrbit NOW is a family of end-to-end solutions for CubeSats and microsattellites. It includes launch and deployment services, IOD/IOV missions, and a set of add-on services

## LAUNCH AND DEPLOYMENT SERVICES

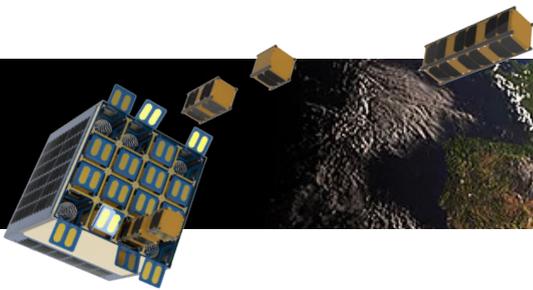
InOrbit NOW offers launch and deployment services through a CubeSat and microsattellites deployer called ION Satellite Carrier and proprietary dispensers called DPODs and DCUBES.

## IOD/IOV MISSIONS

ION IOD/IOV is a plug-and-play platform for in-orbit demonstration and validation based on ION CubeSat Carrier. The platform provides well defined mechanical, electrical, and data interfaces, access to host resources, attitude control, flexible pricing, and multiple launch options in LEO, SSO, and GEO.

## INORBIT NOW EXTRAS

InOrbit NOW provides software development, acceptance testing, transportation, and launch and deployment insurance.



## ION SATELLITE CARRIER

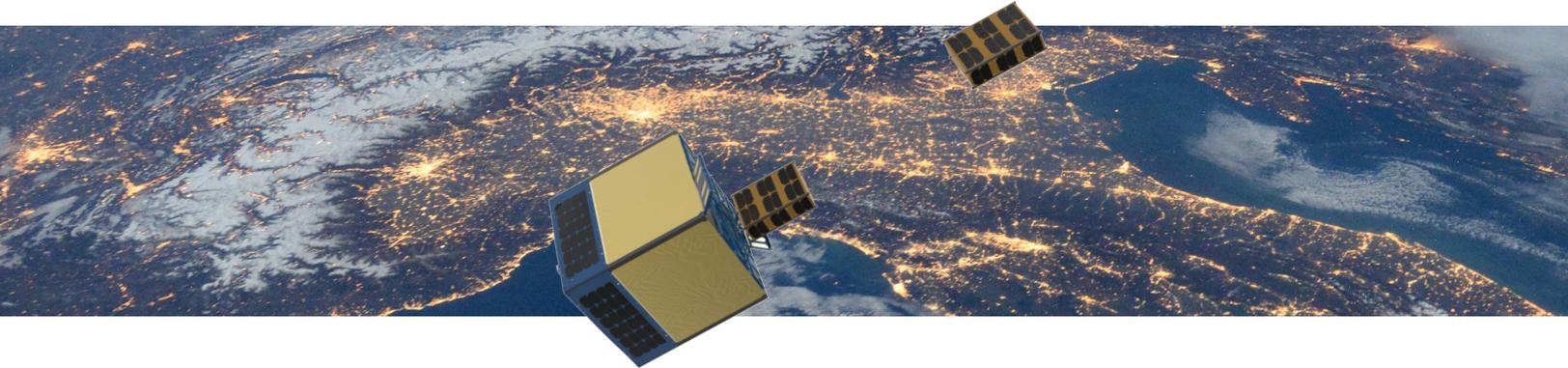
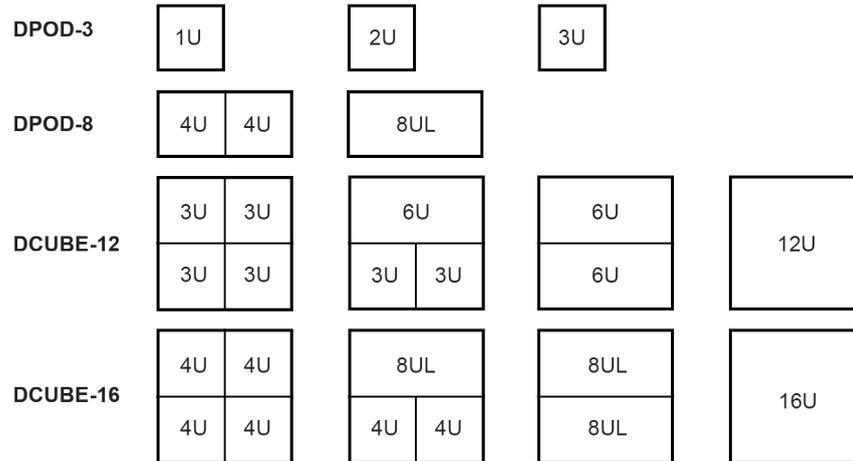
ION Satellite Carrier is a platform able to modify its own orientation, altitude, and local time of ascending node (LTAN) to quickly deploy CubeSats and microsattellites into precise and independent orbital slots, allowing customers to start their missions faster and in optimal operational conditions.

### ION FEATURES:

- **Multiple form factor support:** a 64 1U volume to accommodate multiple combinations of 1U, 2U, 3U, 3U+, 4U, 6U, 6U+, 8U, 8UL, 12U, 12U+, 16U CubeSats, or microsattellites up to 160 kg, with industry record protrusion allowance.
- **Ability to perform orbital maneuvers:** change of altitude and inclination, true anomaly phasing, RAAN shift.
- **Precise deployment:** Each satellite is deployed independently, following a command from the ground, with personalized attitude, pointing, and impulse.
- **Fast dispersion:** up to 85% faster constellations deployment, with wider spacecraft separation, faster signal acquisition, and a stable collision-free formation.
- **Guaranteed deployment:** a triple fault-tolerant mechanism guarantees the release of all satellites that may not be released nominally before the end of the mission.

# DPODS AND DCUBES

DPODs and DCUBEs are proprietary dispensers available in four form factors, for CubeSats between 1U and 16U+ and compatible with the major launch providers. They can be used as a stand-alone product or integrated inside ION.



## DEPLOYMENT OPTIONS

Depending on their needs and mission requirements, customers can choose two deployment options:

**PRECISION DEPLOYMENT:** ION's ability to release each satellite in a different orbital position, with the attitude, pointing, and impulse needed. Thanks to its propulsion module and attitude control unit, ION Satellite Carrier can modify its altitude and orientation. By calibrating the spring releases mechanism, each satellite receives the desired impulse. The release is ground-initiated, so customers can release their satellites right above their ground station or in specific light conditions. Precision deployment can be achieved either using ION, or a combination of ION and our proprietary dispensers.

**STANDARD DEPLOYMENT:** a deployment service that relies on third-party compatible launchers equipped with our DPOD and DCUBE dispensers.