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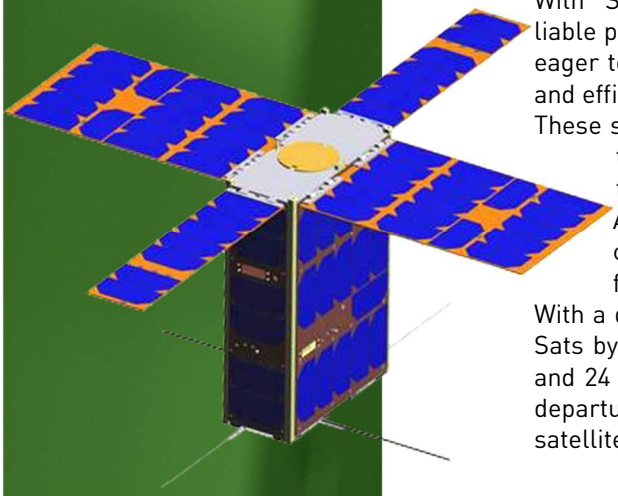
NEXEYA
Let's merge our talents

Small Sats
by NEXEYA

The current market for access to space and of space applications is undergoing a revolution. Industry, communication and Internet giants have generated this departure from the norm. The small satellites of tomorrow, whether deployed alone or by constellation, will provide the data forming the digital economy of the future and promote the emergence of new services and applications. NEXEYA contributes to this change by offering an unmatched balance between quality, cost, development schedule and time to orbit of a modular satellite platform solution.



PRESENTATION

With "Small Sats by NEXEYA", NEXEYA is offering a range of small highly reliable platforms. They are accessible to non-experienced professionals who are eager to take advantage of fast access to space that is both highly competitive and efficient.

These satellite platforms are dedicated to observation, low-speed telecom and technological demonstration, and have an unmatched orbital lifespan for their size, with a service commitment of over 3 years.

Available in various configurations and designed to reduce non-recurring costs and integration and operation costs, they provide new opportunities for monitoring, science and data collection from connected objects.

With a design based on COTS and ITAR-Free components, the cost of a "Small Sats by NEXEYA" remains very attractive, with a provision time of between 12 and 24 months. By design and operation, "Small Sats by NEXEYA" mark a real departure from the existing generation of very small satellites called Nano-satellites or Cubesat .

MARKETS

Space: Large space or government agencies, industrialists and satellite or space equipment manufacturers.

Defence: States, government agencies, militaries, intelligence or intervention services.

Research: research centres, laboratories, universities, etc.

Industries and Transport: Interest for private use of satellites (e.g. insurance, perishable goods manufacture, illegal fishing, piracy, humanitarian aid, risk and disaster management)

APPLICABLE MISSIONS

Earth observation in high resolution to a distance of less than 3 metres (video and imaging) : detailed mapping; urban studies; precision agriculture; infrastructure planning and design; mapping and monitoring of vegetation, forests, glaciers, snow cover, oceans and atmosphere; monitoring of large infrastructures (open-pit mines, etc.); planning and organization of humanitarian aid; mapping of the impact of natural disasters, etc.

Pharmaceutical and biological experiments in micro gravity

In flight demonstrations of technology and components (or software): satellite solution, payload elements, system architecture

Scientific research missions: earth and universe science, pioneering missions, etc.

SMALL SATS

Data collection from connected objects: fleet monitoring, large infrastructure supervision, control of connected objects for health monitoring, AIS, ADS-B, Blue Force Tracking, VDES, etc.
Defence: storage and transmission on theatre of operations, "covert" orbital operations (SIGINT, COMINT, etc.), real-time theatre of operations imaging, reduction of downtime left by larger observation satellites.

STANDARD CONFIGURATIONS WITHIN THE RANGE

Scale :

- 6U range: 100 x 220 x 340 mm^3. Maximum 10kg, up to 7W average for the payload and 100W peak (SSO LTAN 10:30).
- 12U range: 220 x 220 x 340 mm^3. Maximum 20 kg up to 12W average for the payload and 100W peak (SSO LTAN 10:30).

Standing :

- Standard configuration: version with magnetic attitude control, High data rate downlink (6 Mbps), 64 Gb on-board storage capacity.
- Intermediate Configuration: Standard configuration + reaction wheels for fine 3 axes control, High data rate uplink (1 Mbps) and a GNSS receiver.
- Premium Configuration: Intermediate + star tracker, X-band very high data rate downlink (100 Mbps) and propulsion.

"Small Sats by NEXEYA" may, however, be configured "à la carte" (customization based on already developed equipment), custom-made (specific developments) and/or proposed as turnkey solutions.

EQUIPMENT POSSIBILITIES FOR AN "À LA CARTE" CONFIGURATION

- Star Tracker
- X-band very high data rate downlink (100 Mbps)
- Propulsion
- Redundancy
- Reaction wheels
- High data rate uplink (1 Mbps)
- GNSS receiver
- Extended on board storage capacity (up to 256 Gb)

SERVICES

- Training.
- Consulting and mission analysis.
- Payload integration.
- Launch and post-launch / in-orbit support.
- Operation and data post-processing services.

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