

# NANOVA™

Messaging & Data Collection Nanosatellite



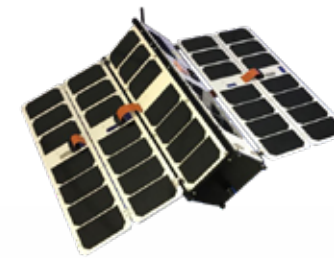


# Pushing 'New Space' Even Further

Leveraging Elbit Systems' three decades of experience in space technology, as well as its expertise in communications, Elbit Systems Aerospace Division has taken space innovation one step further. NANOVA, an advanced nanosatellite that operates as part of a constellation, provides a direct link for data, voice and text messaging.

NANOVA was designed using commercial off-the-shelf components, advanced UI/UX and sophisticated analytical tools, to meet ambitious cost targets and user-experience objectives. This shoe-box sized (3U), lightweight (6kg), UHF communications satellite, provides a fully customizable, end-to-end communications solution that consists of a cost-effective satellite formation, a PC-based ground station and a handheld device the size of a cell phone. As a learning system, the satellite performs constant optimization to maximize resource efficiency and performance.

NANOVA's affordability and intuitive usability make it a relevant and reliable communications solution for a wide range of commercial and paramilitary applications. These range from search and rescue operations, emergency or backup communications, fleet logistics and tracking, M2M (Machine to Machine) networks to remote sensor monitoring & control and more.



## Nanosatellite Cluster

- Store & forward communications capabilities
- Wide, customizable coverage area
- Cluster or constellation format
- Resource optimization
- Network redundancy
- Low-cost, on-demand launch strategy



## Ground Station

- Constellation management
- Multi-mission capabilities
- Advanced, easy-to-use UI
- Web-based monitoring
- Secured communications
- Big-Data analysis and archiving



## Handheld Device

- Compact and lightweight
- Smartphone UI
- Hotspot feature
- BYOD (Bring Your Own Device) applications and tools
- Tactical UHF messaging (data, voice and text)

## Communicating Through Space. Anytime. Anywhere.

Remote, uncovered communication demands

Environmental and agricultural remote sensing

M2M (Machine to Machine) and IoT

Global fleet, transportation and logistics management

Emergency, search & rescue and crisis management

Tactical, secured communications



# NANOVA™

## Messaging & Data Collection Nanosatellite

### NANOVA at a Glance



#### Tailored

Advanced and flexible nanosatellite solution for a wide range of operational challenges



#### Affordable

Unique design and choice of materials for a cost-effective infrastructure with cutting-edge capabilities



#### Multifunctional

Customizable system for varied applications, including remote communications, sensing, backup link, IoT and more



#### Sustainable

Inherent modularity for rapid technological upgrade and ongoing system enhancement



#### Elbit Systems Ltd.

Advanced Technology Center, P.O.B. 539, Haifa 3100401, Israel  
E-mail: [aerospace@elbitsystems.com](mailto:aerospace@elbitsystems.com) [www.elbitsystems.com](http://www.elbitsystems.com)

Follow us on   