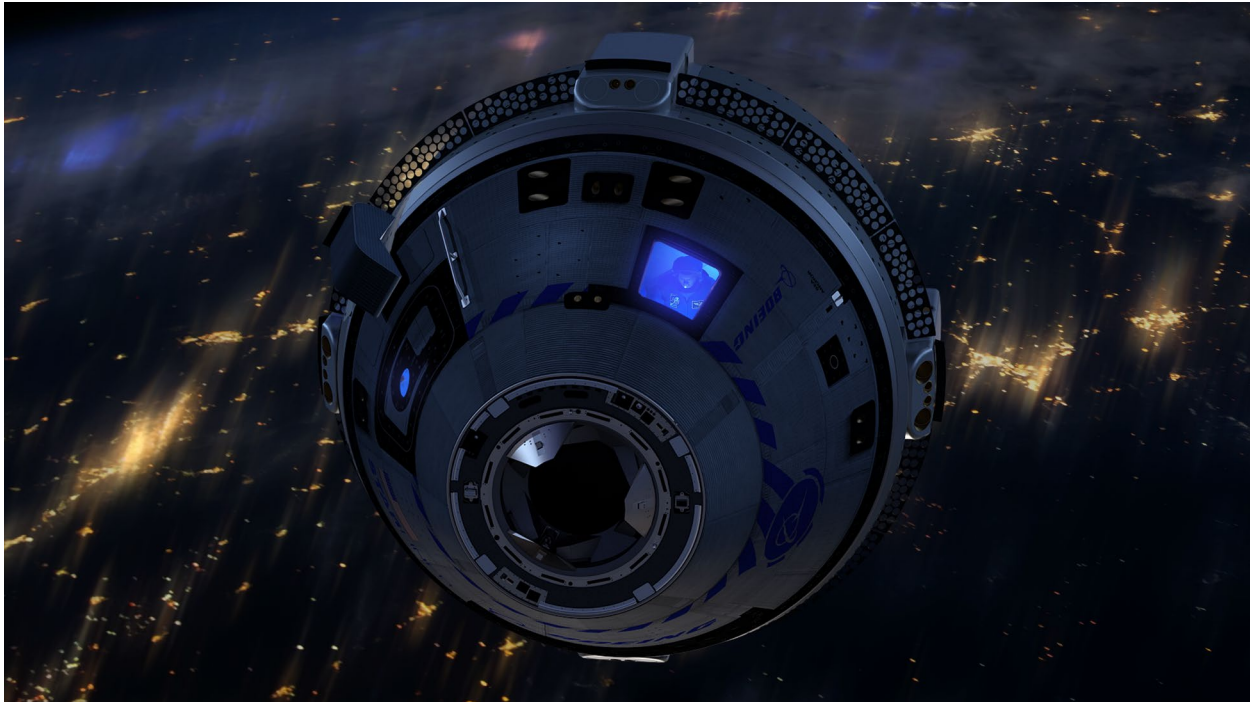


General Dynamics supporting Boeing's CST- 100 Starliner



General Dynamics Mission Systems produces a number of mission-critical communication products and mission computers for the CST-100 Starliner. *Photo credit: Boeing*

General Dynamics Mission Systems

Description:

Headquartered in Fair Lakes, Virginia, General Dynamics Mission Systems partners with NASA, the U.S. Department of Defense and government agencies to support space exploration, Earth science and national defense missions for more than 60 years.

Support for the CST-100 Starliner Program:

General Dynamics Mission Systems is delivering electronic components and systems to help the Starliner fly safely into orbit and autonomously rendezvous and dock with the International Space Station, then return safely to the Earth. Components include:

- **Flight Computers** provide navigation, guidance, and control for the Starliner, functioning as the 'brains' behind flying the space vehicle.
- **System Management Computers** monitor and control all systems on-board the Starliner.
- **Emergency radio and transceivers** enabling all communications between the Starliner and ground control stations and the International Space Station and other spacecraft.

General Dynamics Mission Computers are also aboard:

- The Ozone Mapping and Profiling System (OMPS), an Earth science mission
- The Chandra X-ray Telescope and U.S Air Force space programs.
- Optical Payload for Lasercomm Science (OPALS) laser communications test mission
- U.S. Air Force unmanned space vehicles

About General Dynamics Mission Systems: Supporting national space missions with:

- Exquisite Mission payloads for national defense initiatives
- Delivering the only government-certified M-Code space global positioning (GPS) transceivers ensuring accurate and secure global positioning and timing for U.S. satellites.
- Trusted supplier of space electronics and communication systems for near-earth to deep space satellites to keep mission data flowing to Earth while ensuring each spacecraft stays on course and functioning at 100 percent
- Supporting national Earth Science missions like U.S.G.S Landsat, to include 'flying' Landsat 8 and building the first multi-mission operations center for the U.S.G.S Landsat 8 and 9.
- Ensuring the cyber-security of information and networks transmitting and receiving data from spacecraft to Earth and back

Interesting Facts:

- General Dynamics Mission Systems space electronics and communications products and exquisite mission payloads have been supporting NASA space exploration, Earth science and national defense for more than 60 years. Including the communications system that sent Neil Armstrong's seminal words and historic broadcast video back to an anxious American public in 1969.
- Our technology is on every deep space probe; we are on every Mars rover and lander.
- General Dynamic's space **GPS transceivers** have been aboard both military and civilian space missions since the early 1980's.
- General Dynamics is flying Landsat 8 mission and building the next generation multi-mission operation center for Landsat 8 and 9. Landsat provides Earth scientists with live-saving information from floods, to forest fires, to the ecological changes to farm lands, the oceans and polar regions.

General Dynamics Mission System is a business unit of General Dynamics (NYSE: GD). Visit www.gdmissionsystems.com for details.

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