



# PRESS RELEASE

**Launched on September 8th, 2016, NASA's ORISIS-REx (Origins, Spectral Interpretation, Resource Identification, Security-Regolith Explorer) spacecraft integrates 3D PLUS' modules.**

**BUC, France, September 26<sup>th</sup>, 2016** – NASA's mission OSIRIS-REx is going to Bennu, an asteroid which may contain the molecular precursors to the origin of life and the Earth's oceans, and will analyze its physical and chemical properties thanks to a sample returned to Earth in 2023.

Two of 3D PLUS' modules are involved in this mission in the avionics for the spacecraft: NOR Flash and SDRAM (Synchronous Dynamic Random Access Memory).

The 256 Mb Nor Flash, used for boot and interface card, provides a high memory density and a simultaneous read/write operations, while also 20 years Data retention. The 4 Gb SDRAM, used for storage system, offers the smallest footprint of the Space Industry that allows up to 80% board area saving, and an independent control to easy power Management.

Our modules, highly miniaturized, allow an important space saving. They deliver high reliability, radiation hardness and long data retention that are key for the success of OSIRIS-REx mission.

## **About 3D PLUS:**

3D PLUS is a French SME, world leader in the design and manufacturing of high-performance and high reliability components miniaturized with its unique 3D vertical interconnect technology.

With more than 100,000 modules into space early 2016 and a production of about 20,000 space qualified modules per year in its facility nearby Paris, 3D PLUS provides all stakeholders of the global space industry for over 20 years for telecommunications applications, observation earth, navigation, launchers and human spaceflight, science missions, small satellites and constellations.