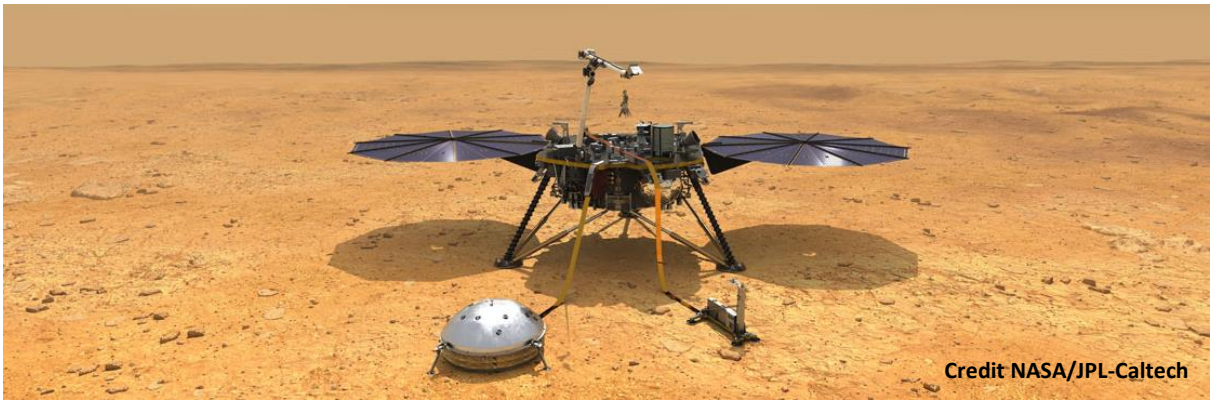
NEWS

Launched in May 2018, the InSight lander (Interior Exploration using Seismic Investigations, Geodesy and Heat Transport) has performed a perfect landing on Mars on November 26th.



3D PLUS is proud to announce it has provided 256Mbit NOR Flash modules on-board NASA's InSight mission for boot and program storage. It allows a better miniaturization to save the space as well as 20 years data retention time for high-capacity non-volatile memory data storage needs. 3D PLUS has also supplied 32Gbit NAND Flash modules for experiments Mass Data storage that features endurance of 100K Write / Erase cycles per sector as well as 10 years data retention time. During InSight's entry, descent and landing operations, the lander has transmitted information in the UHF radio band to NASA's Mars Reconnaissance Orbiter (MRO) flying overhead. MRO is a NASA GSFC spacecraft launched in August 2005 with multiple 3D PLUS SRAM, SDRAM and EEPROM modules on-board.

The NASA's mission will study the interior structure and composition of the Red Planet and determine its present level of tectonic activity and meteorite impact rate. More than a Mars mission, it will allow to understand the formation and evolution of terrestrial planets in our inner solar system such as Mercury, Earth or Venus.

3D PLUS SRAM modules are embedded in the UHF radio equipment onboard the twin communications-relay CubeSats called Mars Cube One (MarCO) A and B that provided real-time data relay during the landing phase. Built by JPL, they are the first CubeSats to fly into deep space. Each MarCO's attitude-control system combines a star tracker, Sun sensors, gyroscopes and three-axis reaction wheels for monitoring and adjusting orientation.

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 146,000 modules into space by the end of 2018 and a production of more than 30,000 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, Earth observation, navigation, launchers and human spaceflight, science missions, small satellites and constellations.

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