

3D PLUS provided multiple volatile and non-volatile memories for the Hope orbiter of the Emirates Mars Mission launched on the 19th of July 2020 from Tanegashima Space Centre in Japan.



Artist's impression of Hope spacecraft in orbit around Mars – Credit: UAE Space Agency

Buc, 21st of July 2020 – The Emirates Mars Mission (EMM), the first Arab interplanetary mission, launched the Hope orbiter built by the Mohammed bin Rashid Space Centre (MBRSC) in collaboration with the Laboratory for Atmospheric and Space Physics (LASP) at the University of Colorado Boulder, the Arizona State University and the University of California, Berkeley's Space Sciences Laboratory (SSL). Hope embeds three state-of-the-art scientific instruments: the Emirates Mars Infrared Spectrometer (EMIRS), the Emirates Exploration Imager (EXI) and the Emirates Mars Ultraviolet Spectrometer (EMUS).

3D PLUS provided multiple volatile and non-volatile memories such as SRAM, SDRAM and NAND Flash for this mission. Our fully space qualified modules bring high reliability in harsh environment and confirm our strong position in the aerospace market with this new interplanetary mission which comes in addition to our long list of flight heritage. Benefiting of a highly miniaturized package thanks to our unique 3D stacking technology, our products perfectly suit high requirements for space environments.

Hope is scheduled to reach the red planet in February 2021 and should provide the first complete picture of the Martian atmosphere. The probe will study weather cycles and events in the Martian atmosphere on a global scale, and on both diurnal and seasonal timescales. Combined with the monitoring of the upper layers of the atmosphere, the measurements will reveal the mechanisms behind the upward transport of energy and particles and the escape of atmospheric particles into space.

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 160,000 modules into space early 2020 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.