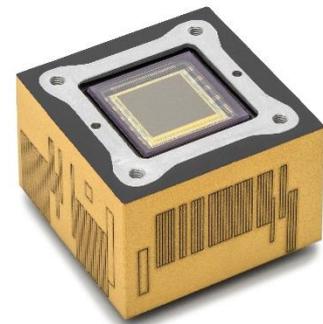


## **3D PLUS has supplied a large number of its highly reliable electronic components to the NASA's Perseverance Mars rover, launched on July 30<sup>th</sup> 2020 from Cape Canaveral, Florida.**

**Buc, 30<sup>th</sup> of July 2020** – 3D PLUS is proud to announce that NASA's Mars Rover Perseverance integrates multiple products such as volatile and non-volatile memory modules (SRAM, SDRAM, NAND Flash, NOR Flash and DDR2), Latch up Current Limiters, Interface components, as well as our unique CMOS space qualified camera head. Embedded in multiple instruments within the Mars rover, 3D PLUS products offer high reliability, radiation tolerance and weight saving thanks to our unique stacking technology that allows a high level of miniaturization.

Our space camera head is embedded inside the SuperCam instrument, jointly led by Los Alamos National Laboratory (US) and IRAP (France), with the contribution of several laboratories and universities. It is used as a Micro-Imager, assisting in the selection and targeting of the rocks to be analyzed by the Raman Spectrometer. Result of an R&D project supported by CNES, the French Space Agency, this camera module integrates all the electronic functions of a complete imaging system including memories, processor, power supply and a 4 Mpx high resolution CMOS sensor providing color images (also available for monochrome configuration). With a design based on the 3D stacking technology, this camera module features an ultra-compact packaging (35 x 35 x 23 mm, 64 g).



3D PLUS' space camera  
[To learn more](#)

3D PLUS confirms its strong position as a supplier for the space industry with this mission, as our space qualified products already traveled to the Red Planet aboard the Curiosity Rover, the InSight lander and the recent Emirati Hope orbiter that will reach its destination in February 2021.

Built by NASA's Jet Propulsion Laboratory in Southern California, Perseverance is the most sophisticated, largest and heaviest rover NASA has built and sent to Mars. It will land in the Mars Jazero Crater on February 18<sup>th</sup> 2021 to start seeking signs of ancient microbial life and collecting rocks and soil samples for possible return to Earth. This is also the opportunity for NASA to pave the way for future human exploration missions to the Moon and Mars.



### **About 3D PLUS:**

3D PLUS is a French Medium enterprise, 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.