

**Launched on March, 7<sup>th</sup> 201, Sentinel 2B is the second Sentinel-2 satellite launched as part of the Copernicus program, the world's largest environmental monitoring program headed by the European Commission in partnership with European Space Agency (ESA).**



The mission comprises twin polar-orbiting satellites in the same orbit that are phased at 180° to each other and it will make a significant contribution to Copernicus themes like climate change, land monitoring, emergency management, and security. The first Sentinel-2 satellite was launched in June 2015. Sentinel-2 is a multispectral operational imaging mission that provides high resolution optical imagery and a global coverage of the Earth's land surface every 5 days with the 2 satellites. Sentinel-2's spectral bands will provide data for land cover and change classification, atmospheric correction and also cloud and snow separation.

3D PLUS provided 4GB SDRAM modules used as high density storage memory in the satellite's data recorder built by Thales Alenia Space Italy. These modules allow more than 85% space savings in the design with the smallest footprint of the space industry while also high speed and very long life time electronics.

Based on the very rugged MNOS (Metal-Nitride-Oxide-Silicon) memory cell technology, the radiation tolerant 4M EEPROM stacks feature endurance of 10 000 Write / Erase cycles and 20-years data retention time. It is used in the two Video Compression Units (VCU) built by Jena Optronik.

Our modules are highly miniaturized and deliver high performance and high reliability, while also radiation tolerance to meet space missions' requirements, such as Sentinel 2.

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

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

With more than 100,000 modules in space and a production capacity of about 20,000 space qualified modules per year in its facility nearby Paris, 3D PLUS continues to build on its heritage as a key solutions provider to a majority of stakeholders of the global space industry for telecommunications, Earth observation, navigation, launch vehicles and human spaceflight, science missions, small satellites and satellite constellations.