

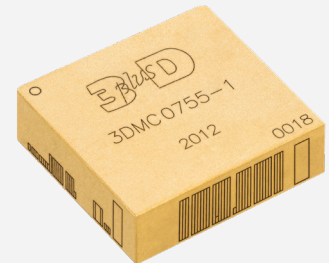
FUSIO RT FAMILY

3DMC075x

3D PLUS FUSIO RT family provides a reprogrammable space grade SRAM based FPGA and highly reliable embedded memories: a 128 Mbit TMR configuration memory plus optional computing and mass data storage memories. All these functions are provided in one single miniaturized package.

The FUSIO RT family includes 4 different configurations:

P/N	CONFIGURATION
3DMC0753	FPGA, TMR SPI NOR Flash memory
3DMC0754	FPGA, TMR SPI NOR Flash memory, NAND Flash 64 Gbit
3DMC0755	FPGA, TMR SPI NOR Flash memory, SDRAM 2 Gbit
3DMC0752	FPGA, TMR SPI NOR Flash memory, NAND Flash 64 Gbit, SDRAM 2 Gbit



Key features:

- ESA BRAVE FPGA
- Internal configuration memory
- Proven radiation hardened design
- 483 pins BGA package, 263 User I/Os
- Operating temperature range: -40°C to +105°C

Radiation data:

- TID > 40 krad(Si)
- SEL LET > 62.5 MeV.cm²/mg

Key benefits:

- Fully space grade European solution
- High degree of integration
- High reliability
- Significant board and design time reduction
- High modularity: 1 footprint for 4 configurations

Availability:

The 4 references of FUSIO RT are available for sale in EM and FM. The evaluation kit 3DEV0753 is available for preliminary development.

VIRTUAL EVENT



INTERNATIONAL CONFERENCE ON SPACE OPTICS (ICSO)

30 MARCH - 2 APRIL 2021

Zoom presentation: High performance and High Resolution CMOS Camera for Space Applications (J. BEZINE)

SUCCESS STORIES - 3D PLUS MODULES REACHED MARS ORBIT

After a seven months trip, the Emirati Hope, China's Tianwen-1 and US's Mars 2020 have successfully reached Mars orbit in February 2021.

3D PLUS provided a large number of its critical components, including volatile and non-volatile memories for the Hope and Tianwen-1 probes. NASA's Mars 2020 rover integrates our unique CMOS space camera in the SuperCam instrument, as well as our LCL and numerous memories and interfaces embedded in several instruments.

3D PLUS is proud to contribute to the success of these three space missions, confirming its strong position as a leading supplier of the international aerospace market thanks to its highly reliable components that perfectly suit high requirements for space environments.

The Emirates Mars Mission is the first Arab interplanetary mission. It aims to provide a complete picture of the Martian atmosphere and study the climate change on Mars. CNSA launched its first independent probe and rover to the red planet to survey the Martian atmosphere. China scheduled to land its rover in May 2021. Finally, NASA's Perseverance rover is scheduled to land on Jezero Crater on 18th of February. The mission will look for sign of past life and collect rocks and soil samples for possible return to Earth.

[Watch Perseverance landing on February 18th](#)

