

Transversal competencies  
Satellites  
Ground segments



At ST, we are 46,000 creators and makers of semiconductor technologies mastering the semiconductor supply chain with state-of-the-art manufacturing facilities. An independent device manufacturer, we work with more than 100,000 customers and thousands of partners to design and build products, solutions, and ecosystems that address their challenges and opportunities, and the need to support a more sustainable world. Our technologies enable smarter mobility, more efficient power and energy management, the wide-scale deployment of the Internet of Things and 5G technology. Space is supported with rad-hard products.

## COMPETENCIES & CAPABILITIES

Design, test, assembly, qualification up to ESCC or QML-V, and supply chain of a wide range of radiation hardened electronic components from diodes, and transistors up to high-density mixed-signal and RF ASICs, through power management, interfaces, analog and image sensors for traditional and New Space, as well as other high reliability applications.

The technology and product hardening know-how is applicable to the most advanced technologies, including FinFET, whether ST's or from a third party.



# STMicroelectronics

## PRODUCTS & SERVICES

ST portfolio of ESCC, QML-V or JAN qualified products includes diodes, bipolar transistors, Power MOSFET as well as logic, interfaces, analog and power management integrated circuits.

ST's portfolio of proprietary differentiated technologies includes Planar, SiC and GaN (discretes), 130 nm mixed-signal CMOS, BCD (Power ICs), SiGe 130 nm and 55 nm (RF ICs), and 65 nm Bulk and 28 nm FDSOI (high-density mixed-signal and RF), as well as CMOS Imaging (Image sensors). Most of these technologies proven rad-hardness capabilities.

ST Rennes plant is ESCC, QML and JAN certified. It supports wire bonded ceramic hermetic packages from LCC-2 to CLGA625, Flip-chip on ceramic and organic substrate up to CLGA 1752 / BGA1752.

## MAJOR SPACE PROJECTS & REFERENCES

Since the early 1980s, ST Space components have been used in most, if not all, European satellites and missions, and in a large majority of all space programs all over the world, including Mars Curiosity and the James Web Space Telescope.

Some ASICs and third-party products using ST technologies, such as 65 nm, 28 nm FDSOI, and SiGe 130, are currently flying and additional ones are in development.

## POINT OF CONTACT

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**TURNOVER** 12.7 M€ in 2021

**WORK FORCE** 46,000 employees

**SPACE TURNOVER** Confidential

**SPACE WORK FORCE** ~175 employees