

RF Optical Communications ("RFOC") reportable segment

Space

We leverage differentiated technologies and integrated device manufacturer (IDM) model to deliver solutions across space-tech value chain. This comprises semiconductor solutions for geostationary satellites, low Earth orbit constellations, and ground infrastructure systems including user terminals. We have historically supported numerous European space initiatives, holding 38 European Space Agency ("ESA") qualifications since its inception, and later adding the American QML-V certification.

By owning the entire semiconductor process—from design and development to manufacturing and testing—ST guarantees the quality, reliability, and performance essential for space applications and the high-volume production LEO constellations require. For a decade, our BiCMOS chip technology has played a vital role in shaping the LEO connectivity landscape that is transforming global internet access.

Optical & RF COT

We offer RF, digital and mixed-signal ASICs, which are based on our proprietary FD-SOI, RFSOI, and BiCMOS technologies, as well as foundry-based FinFET technologies, for satellite communications as well as networking infrastructure.

We also use our proprietary FD-SOI, RF-SOI, and BiCMOS technologies to provide RF and mmWave components for terrestrial communication, based on our know-how in analog and digital beamforming design techniques, to address massive MIMO antenna.

We also address the fast-growing market of cloud-optical interconnect in data centers based on our BiCMOS and SiPho technologies.

Digital Audio & Signaling Solutions

Our car infotainment portfolio includes comprehensive solutions for digital radios, audio amplification and positioning systems. We are a leader in the audio infotainment market, with a wide range of power amplifiers, from head units to premium audio, from telematics to AVAS.

The positioning portfolio includes families of SoC and RF solutions capable of receiving signals from different bands and multiple satellite constellations, enhancing the accuracy of the user's position even under poor satellite visibility conditions.

ST is also a leading provider of radio solutions for automotive infotainment systems and offers digital and analog terrestrial and satellite receivers, as well as multi-standard ICs designed to deliver world-class performance and functionality.

Ranging & connectivity

We are also developing new ranging and positioning products such as ultra-wide band and radar systems, as well as building connectivity products, including 60GHz contactless point-to-point communications over a short range. In 2025, we announced mass-production start for our ST67W module combining Wi-Fi 6, Bluetooth low energy 5.4 and matter. It is the first product of ST's collaboration with Qualcomm Technologies, Inc. announced in 2024, to simplify implementing wireless connectivity in systems containing STM32 MCUs.