iXblue is a global high tech company specializing in the design and manufacturing of Photonics and Space solutions as well as advanced Navigation, Maritime and Autonomy solutions. iXblue provides components and systems for complex applications in extreme environments, from the ocean depths to outer space.

With a dedicated team for space products for more than 20 years, iXblue has end to end control of its value chain, from the R&D carried out in its engineering offices through manufacturing in the company's own production shops and quality control.

Production sites have large clean rooms for the manufacturing of space components and systems. Numerous skillful experts are available together with all the required means to develop, test and qualify products for space. iXblue supplies numerous space actors following ECSS standards.

iXblue at a glance

- 147+ years of experience
- 750+ employees
- 200+ modulators in space
- 30+ satellites equipped with ASTRIX gyroscopes
- 80% of turnover achieved abroad
- 10+ references of space grade fibers (guaranteed RIA)
- 6+ million hours in orbit for ASTRIX gyroscopes
- 1000+ km + space qualified fibers flying
- 147+ million euros of turnover

www.ixblue.com
FROM FIBERS & COMPONENTS TO INTEGRATED SYSTEMS

**SPACE GRADE SOLUTIONS**

- LiNbO₃ Modulators
- 90° Hybrids
- Multiplexers / Demultiplexers
- Optical Channel Receivers
- Optical Channel Emitters
- Low Noise Optical Amplifiers
- Rad Hard Fibers and FBGs

*Highest level of Technology Readiness Level (from 1 to 9)*

- iXblue also delivers atomic clocks and ModBox reference
- Integrated systems (LNOA, OCE, OCR)
- Between two to thousands of satellites.
- Parameters such as the total weight of the device and its maximal power can be customized according to customers needs.
- Fully integrated optical transceiver for space communications...

**SOLUTIONS FOR OPTICAL SPACE COMMUNICATIONS**

- Full-Integrated Transceivers for high-speed communications
- Through the FOLC project frame, iXblue has developed a fully integrated optical transceiver for space communications.
- The transceiver can be used for satellite-to-satellite communications or for in-orbit services.

**NAVIGATION, ATTITUDE & ORBIT CONTROL SYSTEMS**

- LiNbO₃ Modulators, matching RF amplifier, Mux, Demux, 90° hybrids, optical channel assemblies
- Atomic clock reference
- Integrated systems (LNOA, OCE, OCR)

- Fiber-Optic Gyroscopes (FOGs) designed to withstand the harsh and radiative space environments.
- Astrix Series is a fail-safe inertial solution for numerous space applications such as military and scientific satellites.

**SPACE PORTFOLIO**

- **Astrix 200**
- **Astrix 90**

**STRICTLY SINGLE-SEMICONDUCTOR DESIGN**

- Space-proven gyroscopes
- Astrix Series are high-performance space grade 3-axis inertial navigation systems.