

Who we are and what we do



TTTech Aerospace provides deterministic embedded network and platform solutions for aviation and space applications. Its products have already completed over two billion flight hours in Level A safety-critical applications like fly-by-wire, power systems, avionics, engine controls and environmental control systems and covered distances of more than two million kilometers in deep space. Proven, mature solutions help customers in the aviation and space industries to develop integrated, modular and scalable deterministic network platforms that increase safety, fault-tolerance and availability. In addition, integrated solutions reduce size, weight, power and cost (SWaP-C), allowing for easier handling of equipment and lowering total lifecycle cost.

TTTech Aerospace is part of TTTech Group, a globally oriented group of high-tech companies with around 1,189 employees in 11 countries, headquartered in Vienna, Austria. The solutions of the TTTech Group are applied in markets like mobile machinery, aerospace, smart manufacturing and automation and are trusted by many renowned market leaders, based on 25 years of technology leadership.

TTTech Aerospace ↘

Part of	TTTech Group
Main location	Vienna, Austria
Employees	240+ (130+ at TTTech Aerospace, 110 associated in TTTech Group)
Markets	Aviation and space
Global presences	Austria, USA

Advanced integrated systems and deterministic networks for aviation and space applications

Reaching for the sky with certified and safe solutions for the aviation market

TTTech Aerospace has been engaged in the aviation market since 1998 as a provider of development, testing, flight, and network configuration equipment for safety-critical applications. Products such as chip IP, ASICs, and on-board hardware enable system integration, set-up of deterministic networks (ARINC 664 part 7, TTEthernet®, TTP®) and the design and integration of advanced integrated aircraft systems. Worldwide industry market leaders like Airbus, Boeing, Bombardier, Embraer, Lockheed Martin and their systems suppliers use TTTech Aerospace's solutions in programs including Airbus A380, Airbus 220, Boeing 787, Bombardier G7500, Embraer Legacy 450/500, Embraer E2-195, Embraer KC-390.

Exploring new ways to simplify spacecraft software and system architectures

TTTech Aerospace also offers reliable radiation-hardened components and integrated modules for Deterministic Ethernet networking applications designed for the use in extreme environmental conditions found in space exploration and human-rated space flight missions. TTTech Aerospace's avionic backbone network systems act as the "central nervous system" of e.g. NASA's Orion spacecraft, the European Service Module by ESA (ESM) and the Ariane 6 launch vehicle. NASA and its international space agency partners have named TTEthernet®, the deterministic networking technology developed by TTTech, as "International Avionics Systems Interoperability Standards (IASIS)" for programs like the Gateway and future deep space missions. The network and computing platforms developed together with Beyond Gravity are being integrated in the Gateway's Habitation and Logistics Outpost (HALO) and the Power and Propulsion Element (PPE).

Portfolio Overview

Level A certifiable safety control platforms and real-time network products based on TTP®, ARINC 664 part 7 and TTEthernet®

Aviation



- ✔ Switch hardware
- ✔ End system hardware
- ✔ ASICs
- ✔ Embedded software
- ✔ Software tools
- ✔ Testing and lab equipment

Space



- ✔ Switch hardware
- ✔ End system hardware
- ✔ ASICs
- ✔ Embedded software
- ✔ Software tools
- ✔ Testing and lab equipment

TTTech Group offices



North America

- Boston (US-MA)
- Houston (US-TX)

Europe

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|----------------|-----------------|
| HQ Vienna (AT) | Brno (CZ) |
| Munich (DE) | Bucharest (RO) |
| Brixen (IT) | Novi Sad (RS) |
| Tampere (FI) | Osijek (HR) |
| | Banja Luka (BA) |

Asia

- Nagoya (JP)