TTTech

Global Leader

Cutting-edge technology solutions ensuring safety and electronic robustness for a more connected, automated and sustainable world.

TTTech

TTTech Group
Key facts

Founded in 1998, headquartered in Vienna, Austria, with 12 offices in 11 countries worldwide

Products in 1173 production programs

Connected companies: TTTech Industrial, TTControl, RT-RK, TTTech Digital, TTTech ZYNE

1,121

Employees/ subcontractors

36

Nations represented in our workforce

134
TTTech Aerospace

299
R&D/ENG/GENERAL

128
TTControl

520
RT-RK

20
TTTech Industrial

16
TTTech Digital

4
TTTech ZYNE

Megatrends that are transforming the world as we know it

Automation to Autonomy

Automated operation of vehicles and machines increases safety and efficiency and enables new business models and modes of mobility.
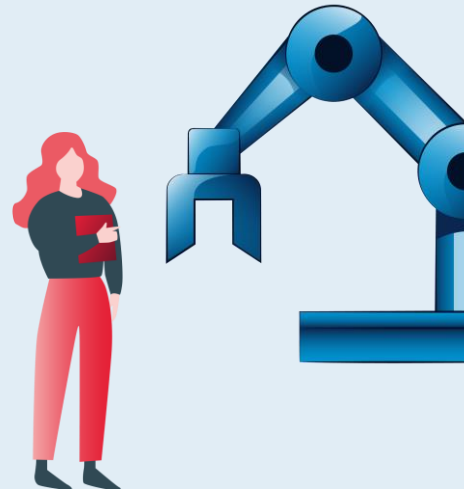
Safety & Security

In an increasingly interconnected world, safety and security are the pillars of any digitization process and need to ensure robustness and agility.

Dependable Software-Defined Machines

Developing reliable software and machines that perform consistently under various conditions

Sustainability & Efficiency

Is the overarching principle that shapes solutions and organizations today. Its basic premises are to make the most of resources and foster a culture where diversity is the key driver of innovation.

Your innovation is our business

Technologies connecting megatrends

Highest safety and certification

System integration, **deterministic networks** and platform components for advanced integrated aviation and space systems

Connectivity and reliability

Unlocking the potential of industrial automation with **edge computing and deterministic networking** solutions

Safety and scalability

Safety software platforms for automated driving and beyond

Robustness and functional safety

Software and hardware platforms for highly reliable electronic **control systems** in mobile machinery and off-highway vehicles

Safe networked computing platforms

Connecting markets to solutions

TTTech Group

→ Group Company Services

→ Group Research & Development

→ Long-term oriented investors as partners

TTTech industrial

→ Fixed wing aircraft
→ Rotorcraft
→ Human space flight
→ Space: launcher, robotics, satellites
→ UAV / UAM

→ Construction
→ Agriculture
→ Material handling
→ Municipal vehicles
→ Special vehicles

→ Discrete manufacturing
→ Process automation
→ Energy production
→ Smart grid
→ Logistics

→ Cloud-driven automation combining OT and IT for machines

→ Platform solution for smart and cross-site energy management

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TTTech Aerospace

Safety control platforms & real-time networks for aviation & space applications

TTControl
HYDAC INTERNATIONAL

Automating safe environments for mobile machinery

TTTech Industrial

Real-time communication & edge computing platforms for the Internet of Things (IoT)

TTTech Digital

Cloud-driven automation combining OT and IT for machines

ZYNE by TTTech

Cloud-driven automation combining OT and IT for machines

Collaboration
through global ecosystems

Research
& innovation projects

→ TTTech's engagement in carefully selected national and international research projects is at the base of our cutting-edge technology

→ TTTech is carrying on the time-triggered data communication approach invented by Prof. Hermann Kopetz at the University of Technology in Vienna, Austria

→ Our research work focuses on time-triggered protocols, determinism and real-time performance for safety- and security-relevant data communication and control in mixed-criticality applications, including edge computing

Projects
by program

- ■ H2020
- ■ ECSEL (FP7 & H2020)
- ■ National
- ■ FP7

Projects year 2022
by domain

- ■ Automotive
- ■ Aerospace
- ■ Off-Highway
- ■ Industrial

TTTech

Success stories

→ MotionWise is an essential part of Audi's zFAS platform

→ TTTech Aerospace provides TTP network platform for Boeing 787

→ TTTech Aerospace provides its TTEthernet Switch and End System products to the Honeywell Aerospace avionics system.

→ TTControl provides safety controllers for Rosenbauer's first electrically powered fire fighting truck

→ Machine and plant engineering company Fill integrated TTTech Industrial's edge computing platform Nerve into their predictive maintenance solution "Cybernetics".

TTTech Group in numbers

27
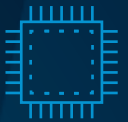ongoing innovation projects

1,100+
employees in TTTech Group

1.9 million
kilometers of slopes

10,000
Vestas turbines

>1 million
ECUs, HMIs & displays

>2 million
kilometers covered by TTEthernet in deep space

2 billion
flight hours

1.5 billion
operating hours of railway systems

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Thank you

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