

TT Ethernet

Time-Triggered Ethernet

Scalable and Safe Ethernet for Demanding Real-time Applications



Key Benefits

- Scales from low to high speed
- Scales from simple to safe and high-availability systems
- Guaranteed real-time performance and determinism
- 100% compatible with COTS Ethernet hardware
- Best cost/performance ratio

Key Features

- 10/100 Mbit/s and 1 Gbit/s
- Synchronization and jitter <math><100\text{ns}</math> possible
- Cycle time <math><10\mu\text{s}</math> (e.g. 1 Gbit/s, 8 nodes)
- Star, line, tree topology
- Inherent safety and fault tolerance
- Guaranteed quality of service
- Enables parallel traffic classes
- Interfaces with established real-time Ethernet protocols

Proven Time-Triggered Technology Principles

TTTech