



# TSN Starter Kit

Comprehensive package to kick off experimentation with a fully configurable Time-Sensitive Network (TSN) system for aerospace labs

Full package designed for aerospace lab usage, consisting of GE-provided configuration software, hands-on training, network switches, and end system hardware to provide a functional and fully configurable Time-Sensitive Network (TSN) system

## Chronos TSN Toolset

- Comprehensive tool for planning, design, analysis, and configuration of time-sensitive networks for deterministic and safety-critical applications
- Field-configure any IEEE configuration standards compliant TSN device to rapidly deploy a coherent configuration to all devices
- Check design feasibility and identify bottlenecks
- Supports multi-vendor equipment and device specific hardware/software constraints

## Aerospace TSN Training

- 2-day hands-on training for industry professionals
- Designed from a system integrator perspective covering all aspects of time-sensitive networking
- Includes review of standards, design principles, configuration, instrumentation, and evaluation
- Chronos tool tutorial + hands-on training with realistic examples
- Demonstration and hands-on experimentation on a multi-vendor TSN Testbed

## TSN Network Switch Demonstrator

- Lab demonstration unit for next generation, state-of-the-art ruggedized avionics
- Base development platform allows for easy transition to one of GE's airborne capable network switches
- IEEE standards-based configuration
- Deterministic or non-deterministic network protocols, ethernet ports configurable to bandwidth needs

## TSN End Station

- Lab evaluation unit for Time-Sensitive Networking (TSN) based end system for deterministic and safety-critical applications
- Featuring Zynq Ultrascale+ MPSoC ZCU102 hardware platform with highly capable TSN IP core
- Supports star, ring, and daisy-chained topologies with or without a network switch
- Embedded OS with custom applications for convenient and efficient end system setup



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Time-Sensitive Networking Toolset

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**GE Aerospace**

3290 Patterson AVE SE, Grand Rapids, MI 49512

[www.geaerospace.com](http://www.geaerospace.com)

Inquiries: [networking@ge.com](mailto:networking@ge.com)