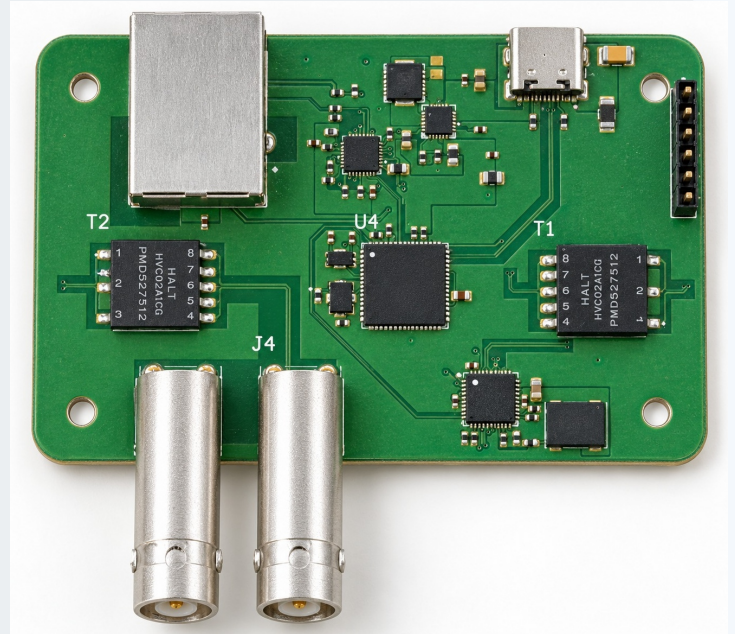


AvioNForge1553

MIL-STD-1553 Ethernet/USB Interface

AvioNForge1553 is a compact, high-performance avionics interface designed to bridge MIL-STD-1553 systems with modern Ethernet and USB communication interfaces. It provides reliable bus communication, monitoring, data transfer and protocol conversion for avionics integration, development and test applications.



Key Features

- 1-channel dual-redundant MIL-STD-1553 interface (Bus A / Bus B)
- Supports Bus Controller (BC), Remote Terminal (RT) and Bus Monitor (BM) operating modes
- Single-function and multi-function operation with concurrent BC, RT and BM capability
- MIL-STD-1553A/B communication support
- 1 Mbps MIL-STD-1553 data rate
- Transformer-coupled MIL-STD-1553 bus interface
- Bidirectional MIL-STD-1553 ↔ Ethernet/USB data communication
- Integrated MIL-STD-1553 protocol processing and dual-bus transceiver architecture
- 10/100BASE-T Ethernet interface
- USB 2.0 High-Speed interface via USB Type-C
- 5 VDC power input via USB Type-C
- Single USB Type-C connection for both high-speed data communication and device power
- USB bus-powered operation - no separate power adapter required
- Standalone embedded architecture
- Compact platform for MIL-STD-1553 bus integration, monitoring and data conversion
- Designed for avionics development, simulation, monitoring and test applications