

## Three-Port Ethernet Switch Board



### Applications

- Flight test instrumentation
- Air vehicle test, certification or development
- Ethernet-based distributed network systems
- System safety monitoring

### Features

- Data acquisition board compatible with TTC Airborne Instrumentation Multiplexer (AIM) and High-Speed Avionics Data Acquisition (HS-AVDAU) products
- Two 100BASE-FX network interface ports and one 10/100/1000BASE-T port interface to ground support equipment
- Non-volatile memory for software storage: Software is field upgradeable
- Fully programmable using TTCWare™ management and configuration system which allows for:
  - Defining and compiling the hardware configuration
  - Uploading and verifying the system configuration
  - Generation of hardware configuration reports
  - Facilitation of airborne equipment setup
  - Unit and subassembly system audits

### Description

The ESW-303-1 is a three-port Ethernet switch board used in TTC AIM multiplexer and HS-AVDAU data acquisition products. The board timestamps incoming data and is equipped with three interfaces: two optical 100BASE-FX Ethernet and a single copper gigabit Ethernet interface. A serial RS-232 port is included for engineering test and debug.

The ESW-303-1 boot ROM is designed so that the AIM or HS-AVDAU in which it is installed is secure while collecting telemetry data inside the aircraft. The board's nonvolatile memory can be manually sanitized and its status verified for reuse or maintenance. The ESW-303-1 is fully programmable using TTCWare™ management and configuration system and its software is field-upgradeable.

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### ESW-303-1 Datasheet

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