

Gigabit Airborne Network Switch with IEEE 1588 Time



Applications

- Airborne networked data acquisition
- Data switching in harsh environmental conditions includes excessive heat and cold, shock and vibration
- Time coherency distribution over an avionics network

Features

- 8-port non-blocking Ethernet network switch
- Ruggedized for airborne applications
- Connects data acquisition systems, the control system, recorders, gateways and network management interfaces and systems
- Supports IEEE 1588 for distribution of coherent global timing information between network components
- Supports SNMP network management
- 20 million packets per second non-blocking switching capacity
- Supports 4000 multicast addresses
- Compatible with TTC networked acquisition and recording systems
- Port capabilities and media include:
 - Ports 1-7: 100/1000BASE-T
 - Port 8: 100BASE-T
- Built-in GPS receiver and IRIG-B time code reader and generator for IEEE 1588 grandmaster clock operation

Description

The NSW-8GT-TG-D-1 provides packet switching and the IEEE 1588 time distribution necessary to support networked data acquisition components. The switch supports managed operation, allowing for dynamic configuration, statistics gathering and health monitoring using SNMP (Simple Network Management Protocol).

IEEE 1588 is supported with an IRIG-B time code reader and generator and a built-in real-time clock and GPS receiver. The switch uses D-subminiature connectors.

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NSW-8GT-TG-D-1 Datasheet

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