TELETRONICS
A Curtiss-Wright Company

Five-Port 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

- Five-port non-blocking Gigabit 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 V1 or V2 (configurable on a per-port basis) for distribution of coherent global timing information between network components
- Supports SNMP V2c/V3 network management
- Full line rate non-blocking switching capacity
- Supports 8192 multicast addresses
- Compatible with TTC networked acquisition and recording systems
- Port capabilities and media include: Ports 1-5: 10/100/1000BASE-T
- Built-in GPS receiver and IRIG-B time code reader and generator for IEEE 1588 grandmaster clock operation
- Can synchronize IRIG time from 1588 time or 1588 time from IRIG time
- Support for port mirroring
- Rapid and Multiple Spanning Tree Protocols (RSTP, MSTP)
- Link aggregation (IEEE 802.3ad)
- Jumbo frame support
- IGMP v3 snooping
- Support for port and tagged-based VLANs
- Support for Quality of Service (QOS)
- Supports TELNET and SSH (secure shell)
- Configurable via TTCWare, CLI and web page
- Field upgradable

Description

The NSW-5GT-TGE 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 Simple Network Management Protocol (SNMP). IEEE 1588 is supported with an IRIG-B time code reader and generator and a built-in battery-backed real-time clock and GPS receiver.