

Sixteen-Port Gigabit Airborne Network Switch with IEEE 1588 Time (Twelve-port Gigabit + four-port 10 Gigabit Ethernet)



Applications

- Airborne networked data acquisition
- High-speed packet switching in harsh environmental conditions includes excessive heat and cold, shock and vibration
- Time coherency distribution over an avionics network
- Airborne high-speed camera systems

Features

- Sixteen-port switch consisting of twelve 1000BASE-T ports and four 10GBASE-SR ports
- Ruggedized for airborne applications
- Connects data acquisition systems, control panels, 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 32768 multicast addresses
- Compatible with TTC networked acquisition and recording systems
- Port capabilities and media include: Ports 1-12: 100/1000BASE-T, 10Gb Ports 1-4: 10GBASE-SR, 1000BASE-SX
- 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-16GT 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.

Revision 02/15/2017

NSW-16GT Datasheet

©2017 Teletronics - A Curtiss-Wright Company
Specifications subject to change without notice.

Approved for Public Release 17-S-1136

Teletronics - A Curtiss-Wright Company
15 Terry Drive, Newtown, PA 18940
phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

www.ttcdas.com



Management System
AS9100C
ISO 9001:2008