

Five-Port Gigabit Network Switch with IEEE 1588 Time



Features

- Five-port Ethernet network switch for TTC networked products
- IRIG-B time code generator
- Each port supports a 100/1000BASE-T full-duplex Ethernet interface
- Supports IEEE 1588-2002 for distribution of timing information across network components
- Provides upstream and downstream Ethernet chaining for multiple data acquisition units when added to any networked product from TTC
- Supports symmetrical flow control to resolve port contention, preventing packet drops and maximizing bandwidth utilization
- Functions as an unmanaged switch that requires no configuration or initialization; all routing information is preconfigured within the unit
- Compatible with TTC network-based high-speed camera, data acquisition and recording systems

Description

The NSW-5GT-1 is a five-port 100/1000BASE-T Ethernet full-duplex switch for use in the TTC network-based cameras and data acquisition product line. It provides upstream and downstream Ethernet chaining, packet switching and IEEE 1588-2002 time distribution to support networked components and systems. The NSW-5GT-1 provides an IRIG-B generator output synchronized to the network's IEEE-1588 grandmaster clock.

The NSW-5GT-1 minimizes the use of ports on more expensive switches by allowing more than one data acquisition unit or camera to share one upstream port on a larger switch. It functions as an unmanaged switch, is preconfigured with all necessary routing information and does not require a MAC or IP address.

The NSW-5GT-1 has a switching capacity of up to 7.44 million packets per second and supports an unlimited number of multicast addresses.

The number of data acquisition units or cameras that can be daisy-chained together using NSW-5GT-1 is dependent upon the total bandwidth produced.

Symmetrical flow control on all ports is implemented using pause frames and guarantees that no packets are dropped due to contention.

Applications

- Networked data acquisition
- Networks of distributed high-speed cameras
- IEEE 1588-2002 time distribution over networks

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NSW-5GT-1 Datasheet

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Management System
AS9100C
ISO 9001:2008