

Network Data Selector



Applications

- Airborne network-based data acquisition systems

Features

- Network data selector with built-in serial data output of selected network data parameters
- Provides 10/100/1000BASE-T network port with IEEE 1588 time synchronization support
- Incoming network data for selection
- Provides selected serial data in packetized form back to the network for on-board data recording
- Selected network data is encoded into programmable serial output with a programmable rate of up to 20 Mbps
- The unit can be configured to output a copy of the serial data as packetized frames into the network
- Compatible with TTC network-based data acquisition and recording systems

Description

The nGWY-2000 Network Data Selector selects parameters or words from user-specified network data packets while the packets are in transit over the data acquisition network to the recorder and formats an IRIG Chapter 4 PCM stream for output to a telemetry transmitter, encryptor or other PCM device.

The nGWY-2000 connects to the networked acquisition system and searches for a pre-programmed set of incoming multicast addresses and selects packets from those addresses that match the specified primary or secondary keywords.

Selected parameters or words from each matched packet are placed in a customer-predefined IRIG Chapter 4 PCM format and during this placement process, the nGWY unit performs timing adjustments to the packets to realign the parameters for synchronous updates to the outgoing PCM frames.

The nGWY-2000 operates at up to 20 Mbps per second and can be used with a PCM transmitter to provide Safety Of Flight (SOF) functionality for an airborne networked data acquisition system.

The nGWY-2000 can be configured to loopback a second copy of the PCM data as packetized frames. These IP frames are multicast over the acquisition network through the Gigabit Ethernet (GbE) interface as an input data source. These packets can be monitored as real-time data in the aircraft or recorded by the network recorder for later analysis.

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Teletronics Technology Corporation
15 Terry Drive, Newtown, PA 18940
phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

www.ttcdas.com