

Airborne Network Flight and Radar Recorder



Applications

- Airborne networked recording
- High-speed airborne recording
- Radar recording

Features

- Intelligent, network-based IP flight recorder
- High throughput, high-capacity recorder that complements TTC network-based data acquisition systems
- High-speed data recording:
 - Up to 200 MBps data recording rate, depending on quantity and type of media
 - 1000BASE-T (Gigabit Ethernet) interface(s)
- Integrates one to eight drives:
 - Single-cartridge unit supports writing to one or more drives concurrently
 - Capacity up to 1 terabyte per cartridge
 - Solid-state storage media
- Processor-based recorder features:
 - Statistical reporting of recorder functions, including performance and available storage
 - Real-time health monitoring
 - Support for Simple Network Management Protocol (SNMP)
- SCSI-compatible media addressing
- IEEE 1588 IRIG-B time support
- Ruggedized for airborne applications
- 28VDC power supply supports operation from standard aircraft power

Description

The nREC-6000 airborne networked recorder communicates with a network of high-speed data acquisition and multiplexing units using one or two copper Gigabit Ethernet links. It offers hardware support for IEEE 1588 time distribution from the network and IRIG-B time.

An additional Fast Ethernet port can be used for dynamic management through the network for diagnostics or data download. A serial port provides console connection.

The recorder houses one cartridge with a record rate of up to 200 MBps. Its built-in intelligence provides recorder statistics and continuous health monitoring. Standard SCSI protocol provides communication with the storage media.

The nREC-6000-1 allows for several options for mounting the unit. It may be mounted on a 1 ATR mounting tray in either a horizontal or vertical orientation. The nREC-6000-2 can be special-ordered from the factory with a base flange for direct mounting.

The nREC-6000 supports RAID level 0.

Revision 10/06/2010

nREC-6000-X Datasheet

©2010 Teletronics Technology Corporation
Specifications subject to change without notice.



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

www.ttcdas.com

nREC-6000-X – Airborne Network Flight and Radar Recorder

Technical Specifications

Electrical Specifications

Input Power: +28 ±4 VDC

Power consumption: Depends on type and number of media drives; maximum of 70 W

Environmental Specifications

Temperature:

MSA-XXXX-SC cartridge: 0°C to +60°C ambient

MSA-XXXX-S cartridge: -40°C to +70°C ambient

Pressure: IMD surrounding pressure from 15.5 PSI to 0.82 PSI. Below 1.68 PSI is limited to 2 min. exposure. Pressure gradient of 0.7 PSI/sec.

Vibration:

MSA-XXXX-S, -SC cartridge: 10 G RMS random, 10Hz to 2000Hz; (estimated) 3 vibration axes, MIL-STD-810F

Shock:

MSA-XXXX-S, -SC cartridge: 10 G, 11 msec, ½ sine (estimated)

Humidity: 5% to 95%, non-condensing

Dimensions and Mechanical

Dimensions: 4.88"H x 7.5"W x 9.58"D

Weight: 20 lbs. (incl. cartridge w/8 drives)

Connectors: MIL-38999 type

nREC-6000 Airborne Recorder

Basic configuration: Data recorded from Gigabit Ethernet link; Storage capacity based on size and quantity of drives; Supports RAID

Control/status: Provided over the network connection RS-232 port and discrete I/O

MSA-XXXX-S/SC Memory Cartridges

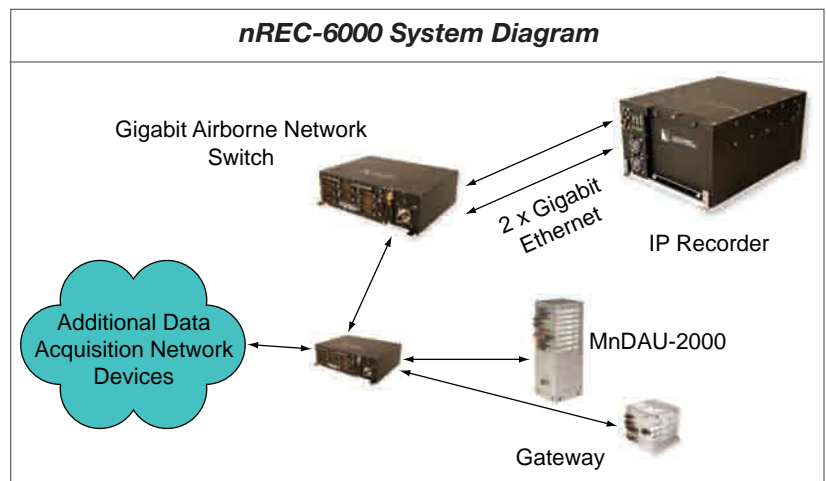
Configuration: Solid state cartridges (up to 8 drives/cartridges)

Capacity: Up to one terabyte

Record Rate: Sustains up to 200 MBps

Read Rate: Up to 60 MBps

Download: Data can be recovered using the Gigabit Ethernet interface or Fast Ethernet interface.



Ordering Information

Airborne Network Flight Recorder - Including Connectors	nREC-6000-1
Airborne Network Flight Recorder with flange mounting - Including Connectors	nREC-6000-2
Solid-State Cartridge (XXXX= Capacity in GB)*	MSA-XXXX-S
Commercial Solid-State Cartridge (XXXX= Capacity in GB)*	MSA-XXXX-SC

*Drive capacities subject to media availability

nREC-6000-X Datasheet

©2010 Teletronics Technology Corporation
Specifications subject to change without notice.

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

www.ttcdas.com