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Find the *L-3 Communications NDS-800-159-1* at our website: *Click HERE*

NDC-810/NDC-802 NETDAS - DATA ACQUISITION CONTROLLERS



OVERVIEW

The NetDAS NDC-810 and NDC-802 modules are system controllers for the NetDAS Data Acquisition System. The NDC module supplies the necessary formatting and control of a NetDAS assembly of modules (known as a stack) to provide the desired filtered and unfiltered system PCM outputs.



The NDC includes an embedded processor that programs the stack's application modules via the internal backplane, as well as configures the data output frame and associated characteristics.

A large on-board flash memory is provided on the module that contains both the operational firmware and configuration data. The latter is sufficient for holding one 256K instruction format or 16 16K formats.

The NDC firmware supports all of the different NetDAS configurations via external pin selection. These configurations include:

- Standalone Operation
- Traditional Master or Remote using the NetDAS CBI-810 Master-Remote Interface module (there are specific modules for master or remote operation). Each master CBI module supports two buses, and up to two of the CBI modules may be attached to a master NDC providing a total of four independent buses in a distributed system.
- Synchronized Remote, where the format operation of the NDC module is synchronized by the controls signals from an NMC-801 module in a Data Combiner Unit.

In either of the distributed system architectures, the master NDC module is the single point of programming interface for all stacks using the appropriate interfaces to perform configuration download and verification tasks.

The NDC provides a time code processor that inputs and synchronizes to an AM or DC IRIG-A/B/G time code input, which allows the module to supply timing information to the formatter and data acquisition modules to support their respective application time stamping functions.

Two versions of the NDC are available, providing the user with different mounting options and support for master-remote configurations when required.

Contact that factory for additional information on custom installation requirements or applications.

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NDC-810/NDC-802 NETDAS - DATA ACQUISITION CONTROLLERS

SPECIFICATIONS

General I/0

General Purpose Inputs	8
General Purpose Outputs	4
Configuration Interface	115.2 kbaud, RS232C

Formatter

Output Frequency range	10 Hz to 20 Mhz
Bit Rate Accuracy	Per 4.2.2.4 of IRIG 106-01 Chapter 4
Bit Jitter	Per 4.2.2.4 of IRIG 106-01 Chapter 4
Instruction Memory Size	256K Instructions
Minor Frame Size	Maximum: 256 Kwords
Framers per Major Frame	4096
Common Word Length	8 to 16 bits

Format Switch Modes

Measurement List Only	Minor Frame, Major Frame Time
Complete Format	Change in Measurement List, Format Characteristics

PCM Outputs

Number of Inputs	
PCM Codes	NRZ-L,M,S; BiØ-L,M,S; MDM-M,S; DM-M,S
PCM Filter Output Level	Selectable 0.5 Vpp, 1.0 Vpp, 1.5 Vpp, 2.0 Vpp, 2.5 Vpp or 5 Vpp into 10 Kohms
Offset	Programmable up to +/- 50%
Source Impedance	75 ohms

Auxiliary Differential Outputs

Number of Outputs	2
PCM Codes	NRZ-L,M,S; BiØ-L,M,S; MDM-M,S; DM-M,S
PCM Clock	0 degree

IRIG Time Code

Input	
Codes	IRIG-B, A or G; BCD; per IRIG-104-70 (200-98), Internal
AC Levels	Minimum Space: 0.25 Vpp
	Minimum Mark-to-Space ration: 3 to 1
	Maximum Mark: 10 Vpp
DC Differential Level	RS-422
DC Differential Impedance	120 ohms
DC Single Ended Level	TTL
Output	DC Differential

Remote Interface

Maximum Number of Buses	4
Maximum Number of Remotes/Bus	7
Maximum Sample Rate/Bus	325 ksps

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