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75DL1

3U cPCI LVDT/RVDT Simulation

The 75DL1 is a cPCI **LVDT/RVDT Simulation Board** that provides **eight 2-wire or four 4-wire** transformer isolated programmable outputs. It provides wrap-around self-test, PXI compatibility, optional Excitation Supply, and is available for Military or Commercial applications.

This product is Obsolete. View our Obsolescence Policy for additional information. Please refer to the 75DS2 product page for details on the closest replacement product.

Features

16 Bit Resolution

Continuous background BIT testing with Reference loss detection

Power-On (POST) test

Automatically supports either 5 V or 3.3 V PCI bus

Transformer isolated

4 and 8 cannel (2-wire) versions available or 2 and 4 channel (3 or 4 wire) versions available

Stable output with temperature

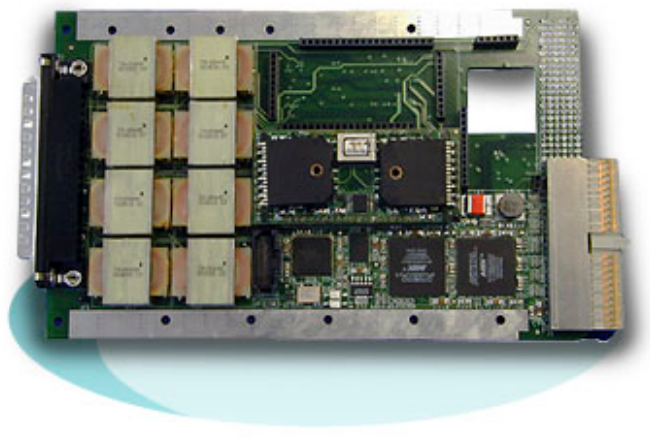
Watchdog timer and soft reset

I/O via Front Panel, P2, or both

No adjustments or trimming required

Commercial or Extended Temperature

Part number, S/N, Data Code & Rev. in nonvolatile memory



REQUEST QUOTE

TECHNICAL HELP

Specifications

Resolution: 16 Bits (.001526% FS)
Linearity: 0.1%FS for .2 <= TR <= 2.0 (.05% FS available at a specified frequency and TR)
Output Format: Configurable for either 3/4-wire or 2-wire. Transformer isolated. Output voltage will vary directly with excitation.
Load: With output voltages from 2.0 to 20.0 Vrms: 10 kΩ min. With output voltages from 20 to 28.0 Vrms: 15 kΩ min. Short circuit protected.
Regulation: 2% max.
Excitation: 2.0 to 28 Vrms. Transformer isolated.
Frequency (excitation): 360 Hz to 10 Khz, see code table
Phase Shift (input to output): 3° max
Phase shift (A/B): 0.5°
Excitation (each) Z in: 50 KΩ min.
Interrupts: Interface implements a single Interrupt capability. One of seven priority lines can be selected.
Signal Logic Level: Automatically supports either 5 V or 3.3 V PCI bus
Power Supply: 5 VDC ±5% at 0.35 A + 1A (3A peak) @ 5 VA Load on optional Reference, ±12 VDC ±5% at 0.5 A
Temperature, operating: "C" 0°C to +70°C, "E" -40°C to +85°C (See part number)
Temperature, storage: -55°C to +105°C
Size: 3U (3.94" height), 4HP (0.8") width, 6.3 depth; 100mm x 20.3mm x 160mm

– Documentation

75DL1 Specification / User's Manual
5/7/2007 1:36:36 PM

Environmental Specifications for cPCI and VME cards
6/19/2018 10:23:51 AM

Quick Start Software Guide
2/13/2009 3:09:16 PM

1_GEN1_Series Platform Obsolescence Letter
4/26/2023 10:20:55 AM

– Software

The 75DL1 includes SSKs to support multiple operating systems. In addition, SSKs are supplied with source code and board-specific library I/O APIs to facilitate system integration.

cPCI 75DL1 Windows Software Support Kit
7/18/2013 3:02:01 PM

– Can’t find what you’re looking for?

North Atlantic's resource center is where you will find information on warranty and repairs, details of our Product Lifecycle Management and Configuration Management programs – and much more.

VISIT RESOURCE CENTER

Useful links:

North Atlantic Industries (NAI) is a specialized provider of embedded electronics, power supplies, and computing solutions for sense and response-intensive military and aerospace applications. With over 65 years of experience, NAI has developed vertically integrated design, manufacturing, and verification capabilities that enable us to accelerate your time-to-mission™. We approach every action and investment with a focus on delivering rapid, reliable solutions that meet your mission-critical needs.

116 Wilbur Place
Bohemia, NY 11716
631-567-1100

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