

NET-AIO12

High Performance Signal Processing Board



GENERAL DESCRIPTION

- ◆ USB 2.0 Full Speed Interface
- ◆ 6-Ch 16-Bit Sigma-Delta ADC
- ◆ 8-Bit Digital Output
- ◆ 10/100Mbps Ethernet Interface

APPLICATION

- ◆ Laboratory Instrumentation
- ◆ Process Control Systems

SOFTWARE

- Operating System**
 - Windows 2000 SP4/XP/7 32-Bit
- Recommended Software**
 - Kernel Mode WDM Driver/User mode DLL

SPECIFICATION

- General**
 - USB2.0 Specification
 - Full Speed Device 12Mbps
- Interface**
 - USB Mini-B Type Connector
 - RJ-45 Ethernet Connector
 - Header Socket Connector for Analog Input

INTRODUCTION

The NET-AIO12 is a board having the function of analog input and digital output. To adapt a TI TMS320C55xx DSP, it process a data that convert 8-ch analog signals to digital data(A/D) for high speed through USB2.0 and Ethernet Interface.

- Header Pin Connector for Digital Input/Output
- 5VDC Adapter Power Connector

□ Simultaneous Analog Input (ADC)

- Channel : 6
- Max. Input Range : ±10V
- Resolution : 16-Bit
- Max. Sampling :
 - Ethernet 65,536 Samples/sec
 - USB 32,768 Samples/sec

□ Digital Input/Output

- Channel : 8 Inputs, 8 Outputs
- In/Out Signal Level : 12/24VDC Isolation

□ Ethernet

- 10/100Msps Support
- Automatic Cable Detection
- Configurable Board Network Information(IP)
- Only Fixed IP Support

□ DSP

- Chip : TI TMS320C55xx
- Main Function : On-chip USB 2.0

□ PoE (Power over Ethernet)

PHYSICAL/ENVIRONMENTAL

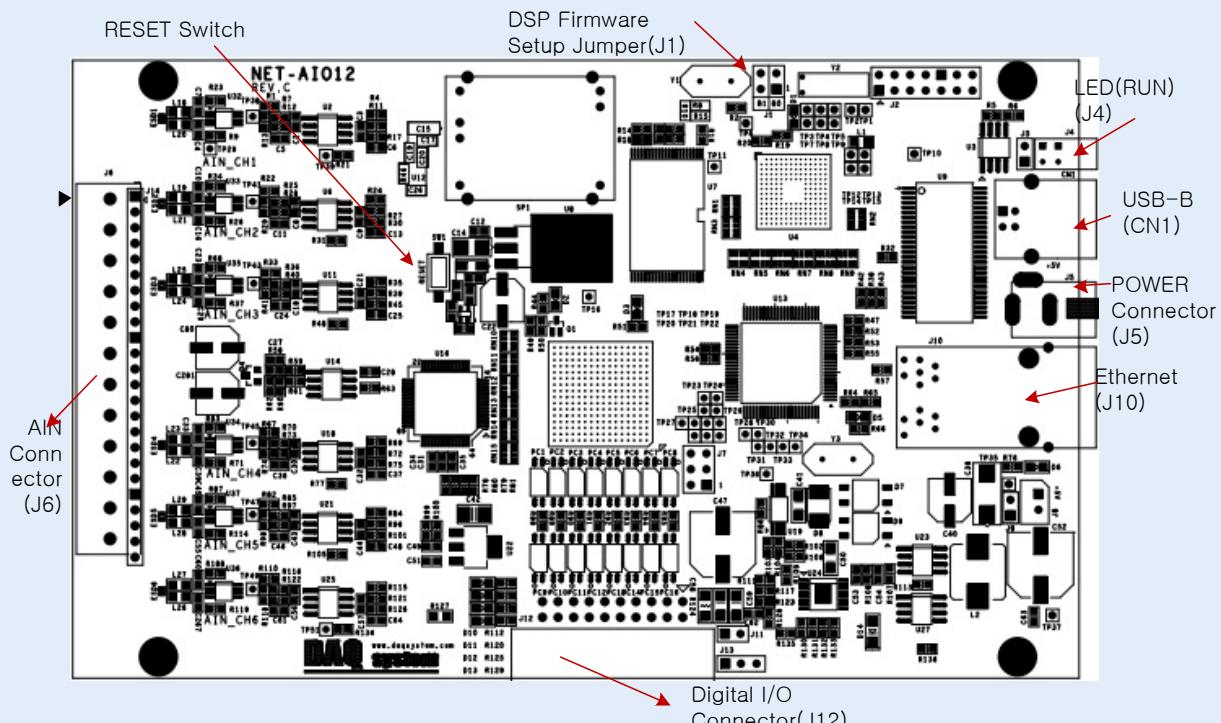
Dimensions

- Dimension (not including connectors)
: 160mm x 100mm

Temperature

- 0 to 70°C, operating
- 20 to + 80°C storage

Board Feature



BLOCK DIAGRAM

