



I²C protocol based ADC/DAC module enables students and practicing engineers to gain practical experience of applications of Microcontroller. The object is to understand how two wire serial interface device is used for interfacing with Microcontroller to communicate with external applications. Analog inputs are converted into digital through Microcontrollers and vice versa. ADC/DAC module, has input and output terminals for connection of external real world applications.

Features

PC based programming

Expansion connectors for plug in with Microcontroller unit and prototyping area

Every pin is marked in order to make work easier

Input/Output & test points provided on board

ADC

I²C™ compatible serial interface, 400 kHz I²C fast mode

Single-ended analog input channel

On-chip sample and hold

On-chip conversion clock

Single supply operation

DAC

Simple I²C™ Serial interface

Single supply operation

Low Power : 350µA operation, 0.5µA shutdown

Exhaustive Learning Material

2 Year Warranty

Note :

1. This module is compatible with Nvis NV5001 series.
2. To run MC13 experiments, MC04 module is required.

Designed & Manufactured by :
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Scope of Learning

- Study of interfacing of I²C ADC
- Study of interfacing of I²C DAC

Technical Specifications

Resolution :

ADC : 10-bit

DAC : 10-bit

ADC Input and Reference : 0 - 5 V DC (Variable) voltage range

Interface : 20 pin FRC cable

Test points : 11 nos (Gold plated)

Power Supply : From Microcontroller development platform NV5001 series

Dimension (mm) : W 255 × D 155 × H 80

Weight : 280 gm. approximately

Learning Material : CD (Theory, procedure, reference results, etc), Online (optional)

Included Accessories :

Patch cord : 4 nos.

Learning material (CD) : 1 no.