



Nvis 5003 AVR Microcontroller Development Platform is a full featured development system for AVR ATMEGA8515 microcontroller. It is an ideal platform to implement and test the designs both for the beginners and the experts. The Nvis 5003 is a convenient way to teach the principles of the family of microcontrollers through to programming and interfacing on the ATMEGA8515 device. Using the platform, a range of projects in various domains like telecommunication, robotics, consumer electronics etc can be done. The Nvis 5003 gives designers a quick start to develop code on controller with on platform programmer and on platform breadboard facility. The flexibility of connectors allows the user to make external connections. On board Breadboard allows making their own circuits and performing an experiment as they desire.

Features

- AVR ATMEGA8515 MCU clocked at 8.0MHz
- Expansion connectors for plug in modules and prototyping area
- On platform programmer for Atmega 8515 microcontrollers
- USB interface to PC for programming
- Every pin is marked in order to make work easier
- Master Reset/Restart key for hardware reset
- Input/Output & test points provided on platform
- On platform breadboard
- Self contained development platform with on platform DC Power Supply
- CD with sample project code, Programmer software & useful documents



Scope of Learning

- Study of AVR Microcontroller architecture
- Pin to pin study of MCU.
- To study serial protocol(I2C/SPI).
- To study internal PWM.
- To study Timer/Interrupt.
- To study RTC.
- To study Arduino.
- Interface various external MC01- MC17 series modules.

Technical Specifications

Serial Communication	: USB Port
MCU	: ATMEGA8515
Crystal Frequency	: 8 MHz
Size of Breadboard	: 175 x 67 x 8 mm
Test points	: 39 nos (Gold plated)
DC Power Supply	: +12V, -12V, +5V & -5V
Programmer unit	: Ready to run programmer will program ATMEGA series microcontroller
Interconnection for Modules	: 2 mm patch cords and FRC cables
Product Tutorial	: Online (Theory, procedure, reference results etc)
Dimensions (mm)	: W 326 x D 252 x H 52
Power Supply	: 110V - 260V AC, 50/60Hz
Weight	: 1.5Kg (approximately)
Operating Conditions	: 0-40°C, 85% RH
Included Accessories	: USB cable, Mains cord, Software SMPS, 20 Pin FRC cable, 10 Pin FRC cable, Patch cords

Other Microcontroller supports (optional)

ATMEGA 8/16/32/128/168/328P/1280/2560 by using addon board

Suggested Module (optional)

Nvis MC 01 to MC 17 extension modules and Embedded Simtel for exhaustive learning.

