

## INTRODUCTION

### DESCRIPTION OF EMBEDDED EVALUATION BOARD

#### 1.1 INTRODUCTION

The Embedded Controller Evaluation Board provides the user with the features required to understand the capabilities of an advanced microcontroller - the AT89C51ED2 Micro controller. The AT89C51ED2 is architecturally compatible with the Intel 89C51. The board consists of

- The Flash programmable AT89C51ED2 controller
- 8 numbers of LED's

8 numbers of Switches

- 16 X 2 Line LCD Alphanumeric Display
- RS232C compatible Serial Interface for communication , ISP
- SPI compatible 12 bit ADC with Temperature Sensor Interface
- 4 numbers of multiplexed 7- Segment Displays
- I2C 8-bit ADC/DAC Interface
- I2C RTC
- I2C NVROM
- 4 numbers of high Current Output lines
- One changeover Relay for Experiments
- In System Programming capability

#### 1.2 SPECIFICATIONS

The Flash Programmable Embedded Controller Evaluation Board consists of

- The Atmel 89C51ED2- 8-bit micro controller (U1) with operating frequency of 11.0592MHz with an external crystal and supply voltage of 5V. It has 64K bytes of flash memory block for program and data and 1792 bytes of XRAM
- A 26 pin FRC connector **CN3** connected to Ports 0,1 and 2 of the controller, which is compatible with ALS standard external interfaces.
- 26 pin FRC connector **CN4** which can be connected to Port 0,1 and 2 Lines to study the internal features of the controller , Reading Switches, PWM, ADC, DAC, RTC, NVROM, 7-segment Displays etc.
- A 9 pin D-type female connector **CN2**, RS232 serial i/o interface for UART experiments and flash programming.
- A 9 pin D-type male Connector **CN1** for power connection (+5V and GND).
- Push buttons switch **SW2** for Reset and a Slide switch **SW1** to select either program mode or run mode.

# Esd Lab Manual

**Mike Meyers, Mark Edward Soper**



## **Esd Lab Manual:**

**CompTIA A+ Complete Lab Manual** James Pyles, 2012-09-13 Boost your understanding of CompTIA A exam principles with practical real world exercises Designed to complement CompTIA A Complete Study Guide this hands on companion book takes you step by step through the tasks a PC technician is likely to face on any given day It supports the theory explained in the test prep guide with additional practical application increasing a new PC technician's confidence and marketability Various scenarios incorporate roadblocks that may occur on the job and explain ways to successfully complete the task at hand In addition each task is mapped to a specific A exam objective for exams 220 801 and 220 802 Tasks are divided into categories hardware and software installation hardware and software maintenance and installing and upgrading operating systems networks and security systems Designed to enhance factual study with practical application Explains step by step how to perform a variety of tasks that PC technicians commonly face on the job Tasks include installing or replacing a power supply or a laptop hard drive installing or upgrading to Windows 7 scanning for and removing viruses installing printer drivers and troubleshooting a network CompTIA A Complete Lab Manual gives you the hands on experience you need to succeed in the real world *Complete A+ Guide to IT Hardware and Software Lab Manual* Cheryl A. Schmidt, 2019-07-17

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