In-class lab 1:

Learn to use the hardware and software of the development platform

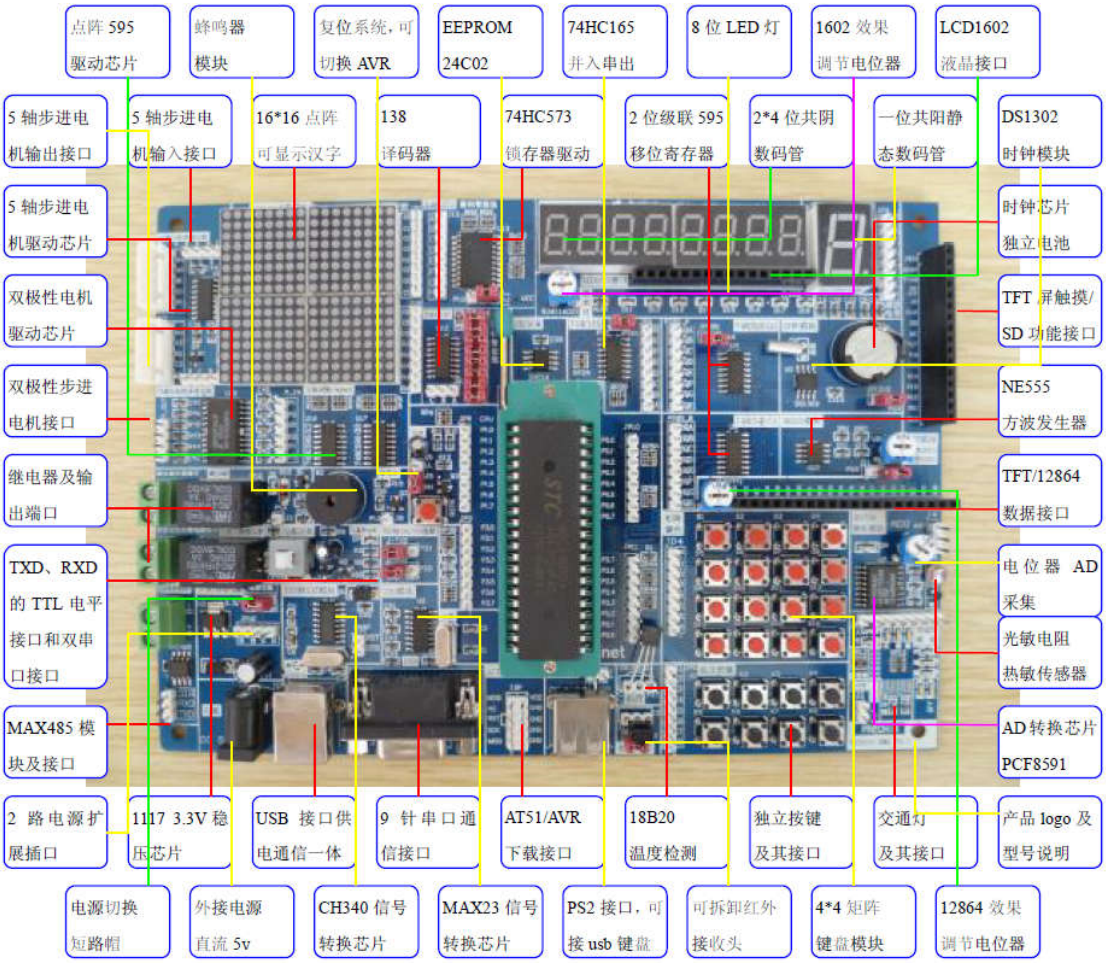
1. Experiment Objectives

The main objective of in-class lab 1 is to learn to use the development platform, with the specific objectives as follows:

- Be able to install the software platform (Keil µvision and PZISP) on your lap-top.
- Be able to connect the experimental kit with lap-top.
- Be able to create a project, add assembly program, debug the program and compile the program using the software platform (Keil µvision).
- Be able to download the generated binary code to the experimental toolkit using the software platform (PZISP).

2. Main Experiment Apparatus

PRECHIN microcontroller development toolkit as shown below, including the main board (HC6800EM3-V3.0) and other accessories:



3. Experiment Tasks and Requirements

Each student should complete the following tasks independently in class:

- Installation of the software platform (Keil μvision and PZISP burning software) on lap-top.
- Installation of the USB to SERIAL driver of STC90C516RD.
- Connection of the experimental kit with lap-top.
- Software setting of Keil μvision and PZISP.
- Learn to use the hardware and software platform by a simple LED flash lab.
  - Create a project, add an assembly program in the project, debug the program, compile the program using Keil μvision.
  - Download the generated binary code to the experimental toolkit using PZISP.

4. Grading

- Installation of the software platform in lap-top and software setting of Keil μvision. (20%)
- Installation of the USB to SERIAL driver of STC90C516RD. (10%)
- Create a project, add an assembly program in the project, debug the program, compile the program using Keil μvision. (50%)
- Connection of the experimental kit with lap-top and download the generated binary code to the experimental toolkit using PZISP. (20%)