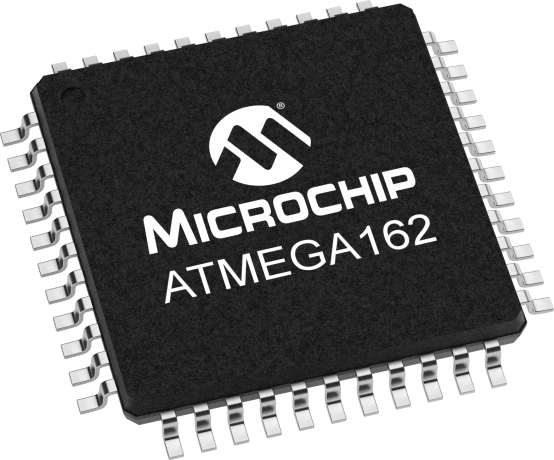
CS-301 MBSD

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Complex Engineering Project



## Password Based Security System Using Atmega162 AVR kit & Keypad

The circuit of this project is very simple which contains Atmega162, keypad module, 7-segment Display, push button and LED.AVR kit controls the complete processes like taking a password from the keypad module, comparing passwords and sending status to the 7-segment display. The keypad is used for taking the password. The LED is used for indications.7-segment is used for displaying status of lock being opened or closed.

## Working of Password Based Door Lock Security System

In this project, we have defined the default password “1234” in the microcontroller. The password can be changed via coding. Initially as the password is locked the 7-segment displays a ‘C’ (for closed lock) indicating that the system is locked, when we enter a password, it will match it with the password stored in the Atmega162. If password matches the already saved password, display 'O' (for open lock), then it will display an ’O’ indicating that the system is unlocked. Password can only be entered only when a 'C' is displayed on the display, a push button is used to close the lock again, when the lock is opened indicated by an 'O' in the seven segment display, thus making a 'C' appear on the display again.