

## EFL Controller

EFL Controller is software that uses an Arduino Mega 2560 microcontroller board to control stepper motors and control other devices using general purpose I/O signals.

We tried to make it simple to use and with a few click you can make a program to use it in your automation projects.

The program will send your command using USB port to microcontroller and it will follow them.

You can make your programs and save them and load and run them anytime you need.

You can even upload your programs to your board and run it stand alone without a PC. (see wiring diagram)

### Arduino MEGA 2560

Number of step motors to control	6
Number of Input signals	16
Nubmer of output signals	16

Basically EFL can send signals to any drivers that can accept 5 volt Step and Direction input signals.

You can program the position, speed and acceleration of this motors to follow your paths, also be able to send and receive signals to and from outside.

Commands list for programming are:

MOV	(move to position)
WAT	(pause for specific time)
WFS	(Wait for input signal to go high)
OFF	(Set output signal off)
ONN	(Set output signal on)
XRF	(find X reference switch)
YRF	(find Y reference switch)
ZRF	(find Z reference switch)
XOO	(set X zero)
YOO	(set Y zero)
ZOO	(set Z zero)
RPT	(repeat from the beginning of the program for certain times)

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