

MC600 series controllers



MC600 series products are high-performance controllers designed and manufactured by Zolix. They employ 32-bit DSPs to realize 3-axis linear interpolation and 2-axis circle interpolation with closed-cycle feedback with each axis. They can be operated with a built-in SD cards which means that host computer is not a necessary part in the controlling systems.

MC600 series products can be used for the controlling of motorized linear stages, rotation stages and goniometers. Drivers of stepping motors and servo motors can be installed inside of MC600 controllers to provide higher operation reliability. They also ensure customers friendly HMI, full function of parameters setting and flexible IOs.

There are two models in this series:

- MC600-2B/4B, for two-phase stepping motors
- MC6003P-2B/4B, for three-phase stepping motors

Main characteristics:

- 32-bit DSPs employed
- Absolute- and relative-position control functions
- Combination controlling of multi-stages
- Offer four kinds of controlling units: pulse number, angle, mm and μm
- Offer close-cycle controlling function by using external grating rulers
- Provide controlling of initial speed, constant speed and acceleration speed separately
- Can setup an arbitrary position as customer-defined origin point
- Real-time readout of status parameters such as logic position, true position, driving speed and acceleration speed
- 16-channel IOs provides enough host- and slave-controlling functions
- 240*180 liquid-crystal display panel
- Controlling parameters can be saved before turn down, easy for next operation
- Controlling function of optional handles
- Zolix MC600 control software provided

SC series controllers



SC series products are motorized stage controllers for 1-3 axis point-to-point integrated position controlling. Stepping motor controlling cards are built-in and display panel is also provided. RS232 and USB ports are standard (not be used at same time) and can controlled with Zolix Motion Manager software. If customer requires, communication protocol or OCX controls can be provided.

Main specifications

Model number	SC300-xA	SC300-xB
Type of motors controlled	20、28、35 or 42two-phase stepping motors	42 or 57two-phase stepping motors
Current range of drivers	0.3A,0.5A,0.7A,1.0A,1.3A,1.6A,1.9A,2.2A	1.0A,1.5A,1.8A,2.2A,3.0A,3.5A,4.0A,4.5A
Pulse frequency range of output from controllers	200 ~ 20KHz	
Voltage of power supply	AC187V ~ 242V	
Quantity of axis controlled	1-3 axis	
Quantity range of pulse output	-999999 ~ 9999999 Pulse units	
Fine-division of drivers	2,4,8,16,32,64,128	2,4,8,16,32,64,128,256
Selectable pulse speed	400pps ~ 18Kpps	
Type of acceleration and deceleration	Triangle or Trapezoid	
Type of display	8-bit LED	
Type of IOs	RS232 or USB	
Dimensions (mm)	380×350×120	
Working temperature range (°C)	-10 ~ +45	
Environment relative humidity range	45~85%RH	
Weight (Kg)	Max: 6	