

MOTION CONTROLLER **RTC3000 and RTC4000**

The RTC3000 and RTC4000 are miniature servo controllers with built-in amplifier for use in OEM equipment to control very small brushed or brushless DC servo motors.

The RTC3000 measures 3.68 x 1.815 x 0.35 inches and makes all connections on the long edge side. The RTC3000 operates from a 12 to 24 VDC source and switches 1 Amp of continuous and 3 Amp of peak current. The RTC4000 measures 1.18 x 2.15 x 0.50 inches. The RTC 4000 operates from a 12 to 24 VDC source and switches 3 Amp of continuous and 6 Amp of peak current.

The small motor controller outputs are protected from short circuit to each other, to supply and to ground. The 32K of internal program memory can be used by jumpering two signals together at the memory port. Alternatively, the port signals can be routed to an external memory module. Either way, the unit can be programmed in BASIC to operate stand-alone. Stand-alone programs can interact with all inputs and outputs of the RTC3000, affording total flexibility and a multitude of additional interface options. The controller communicates over RS232 and RS485. All signal ports have supply and ground to power external devices such as limit switches, encoders, hall sensors, etc.

Like the SmartMotor, both the RTC3000 and RTC4000 have an additional network port called AniLink™ that interfaces with a vast array of peripherals.



Key Parameters

RTC3000	
Dimensions	3.68" x 1.815" x 0.35" (93.5 x 46.2 x 8.89mm)
Source voltage	12 - 24VDC
Switching current	1 A continuous, 3 A peak
Internal memory	32k
Communication	RS232, RS485, AniLink™ network
Inputs	7 user assignable I/O, analog input and digital I/O capability
Weight	2.1oz

RTC4000

Dimensions	3.18" x 2.15" x 0.50" (80.8 x 54.6 x 12.7mm)
Source voltage	12 - 24VDC
Switching current	3 A continuous, 6 A peak
Internal memory	32k
Communication	RS232, RS485, AniLink™ network
Inputs	7 user assignable I/O, analog input and digital I/O capability
Weight	3.1oz

DEVELOPMENT PACKAGE AND CONNECTOR KIT

The RTCDEVPACK is available as a development package for the RTC3000. Also available is the KITRTCCONN which is the connector kit only. Contact the factory for RTC4000 kits.

Connector Data

Connector Type	Animatics Part #	Molex Part #
2 pin	CN164	51021-0200
3 pin	CN165	51021-0300
4 pin	CN166	51021-0400
5 pin	CN167	51021-0500
7 pin	CN168	51021-0700
Crimp Contact	P126	500-79-8100

