

# SilverPak 17C/CE

**MOTOR + CONTROLLER + DRIVER**

## MAIN FEATURES:

- Voltage: +12 to 40VDC
- Current: 0.2 to 2.0 Amps Peak, programmable in terms of percentage of max possible current
- Hold current: 0.2 to 1.0 Amps, programmable up to 50% of max possible run current
- Step resolution: 1x, 2x, 4x, 8x, 16x, 32x, 64x, 128x, 256x
- Speed: (max step frequency: 16.8MHz)
- Inputs: 2 I/O's, 1 input for homing to an opto sensor, 1 input for a switch closure to ground (Total of 2 I/O's and 2 inputs)
- RS485 communication
- Stand alone operation, can store programs on EEPROM and run upon power up
- NEW: Able to use inputs 1 & 2 as limit switches

## DETAILED FEATURES:

- Operating temperature: -20 to 50°C

## INCLUDED ACCESSORIES:

- 090-00022 cable for DB-9 cable comes with each unit (with a red 4-pin connector for the RS232-485 converter card)



- 090-00018 cable for motor comes with each unit (the other side is 4 flying lead wires)



## OPTIONAL ACCESSORIES:

(Available for an additional cost)

- Designer's kit: RS232-to-485 with push button, opto sensor, CD-ROM, cables (2)



- Designer's kit with USB485 converter card (USB485, push button, switch, CD, cables)



## CONNECTION SPECIFICATIONS:

Pin #	Color	Function	Input
1	Red	+V (Main power in)	
2	Black	I/O	1
3	Brown	RS485B (-)	
4	Black/White	RS485A (+)	
5	Orange	Switch Closure to GND (IN)	4
6	Green	GND (-V of main power in)	
7	White	Opto Sensor Phototransistor (IN)	3
8	Blue	I/O	2
9	Yellow	Opto Sensor LED (Power Out)	

## PROGRAMMING:

- Programming the R256 is simple and intuitive in HyperTerminal. Programs always begin with a forward slash "/", and address number, then one alpha character and then the value:

**/1A5000R**

This stands for Absolute position 5000, and will rotate 5000 steps

**/1A5000A0R**

This will rotate to position 5000, then back to position 0

**/1gA5000A0G5R**

This will rotate to position 5000, then back to 0, looping 5 times (commands between the 'g' and 'G' will be repeated, or in a loop)

**/1s0gA5000A0G5R**

By typing 's0', this means to store the following commands in the EEPROM and run this program upon power up.