



Description

CiA301 and CiA402 protocol.

SSD2505PC

- 32 bit DSP control technology, low noise/vibration with excellent stability and low cost
- Current automatically change according to load
- 16 constant-torque microstep settings, 200 microsteps the highest
- Input voltage range: DC24~50V
- Excellent high-speed performance and rigidity, perfectly integrated the advantages of servo and stepper
- Less torque attenuation, with 3000rpm efficient working speed
- CAN-Bus, support standard CANopen protocol, mounting 127 devices the most
- Built-in single-axis controller and digital drive function, supporting position control, speed control and multi-position control mode

Typical Application:

Widely used in textile machines, embroidery machines, security equipment, stage lighting, robots, medical equipment, laser equipment, marking machines, plotters and other automation equipments.

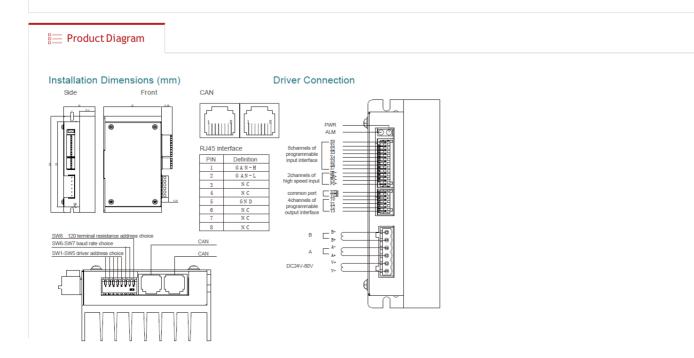
Product Details



SSD2505PC takes the advantages of 32-bit DSP control technology and power angle control technology, maximum speed reaches more than 3000rmp. It's high-speed torque attenuation is much lower than ordinary open-loop stepper drive, which can greatly enhance the high-speed performance and torque efficiency, and reduce motor heating/vibration, thus to enhancing machine's efficiency and accuracy. SSD2505PC integrated with bus communication and uniaxial controller, equipped with CAN-Bus interface, and support standard CANopen

It has 2 photoelectric isolated programmable high-speed differential input terminals, 5 photoelectric isolated programmable input terminals and 3 photoelectric isolated output terminals. With those multiple input/output terminals, it's used to carry out current setting, position control, speed control, home position return and other uniaxial motion control.

SSD2505PC is particularly suitable for long distance, strong interference environment, and multiple motor control applications. Since it has uniaxial control function, users don't need to purchase controller anymore, thus greatly reduce costs.



Terminal Resistance Setting

120 choice of terminal resistance	S W8					
invalid	0 F F					
valid	0 N					

COM Baud Rate Setting

baud rate	SW7	SW6
9600(default)	0 N	0 N
19200	0 N	0 FF
38400	0 F F	0 N
115200	0 F F	0 F F

COM address setting

add.	custom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SW 5	0 FF	0 FF	0 FF	0 F F	0 FF	0 FF	0 FF	0 F F	0 F F	0 FF	0 F F	0 FF	0 F F	0 FF	0 FF	0 FF
SW4	0 FF	0 FF	0 FF	0 F F	0 FF	0 FF	0 FF	0 F F	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
SW 3	0 FF	0 FF	0 FF	0 F F	0 N	0 N	0 N	0 N	0 F F	0 FF	0 F F	0 FF	0 N	0 N	0 N	0 N
SW 2	0 FF	0 FF	0 N	0 N	0 FF	0 FF	0 N	0 N	0 F F	0 FF	0 N	0 N	0 F F	0 FF	0 N	0 N
SW1	0 FF	0 N	0 FF	0 N	0 FF	0 N	0 FF	0 N	0 F F	0 N	0 F F	0 N	0 F F	0 N	0 FF	0 N
add.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
SW 5	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
SW4	0 FF	0 F F	0 FF	0 FF	0 FF	0 F F	0 FF	0 FF	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
SW 3	0 FF	0 F F	0 FF	0 FF	0 N	0 N	0 N	0 N	0 FF	0 FF	0 FF	0 FF	0 N	0 N	0 N	0 N
SW 2	0 FF	0 F F	0 N	0 N	0 FF	0 F F	0 N	0 N	0 FF	0 FF	0 N	0 N	0 FF	0 FF	0 N	0 N
SW1	0 FF	0 N	0 FF	0 N	0 FF	0 N	0 FF	0 N	0 FF	0 N	0 FF	0 N	0 FF	0 N	0 FF	0 N

🔚 Terminal Assignment

Mark Function Specification PWR Power indicator Light on once power on Over-current, flash one time; Over-voltage, flash twice; Under-voltage, flash ALM alarm light three times; EEPROMEEPROM error, flash four times; Support NPN & PNP wiring modes, requires the pulse width is bigger than 8 channels of programmable input X0-X7 10ms10ms Effects on falling edge. Input resistance 220 Ω . Requirements: low level 0-0.5V, high level 4-5V, pulse width>2.5 μs DR-+5V~+24V can drive, must add resistance on PU- to control current if the DR+ voltage is higher than +5V. Effects on falling edge. Input resistance 220Ω. Requirements: low level PU-0-0.5V, high level 4-5V, pulse width>2.5µs +5V~+24V can drive, must add resistance on PU- to control current if the P U + voltage is higher than +5V XCOM Support NPN & PNP wiring modes. Support NPN & PNP wiring modes. Y C O M 4 channels of programmable output Y0-Y3 V+ power+ DC 24-80V V power--B -B (M) (**M**) Ę (**M**) A+ A-M *B 8 le? Motor connection +B പ് 4 leads B + B -6 le (for low spe (for high spe

Terminal Introduction