

시리얼(TTL-UART)제어 7~25V/1.2A 스텝핑모터 드라이버 모듈(P2980) 프로토콜

1. The product description:

- 1) the serial port communication Format: 9600 baud, no parity, 8 data bits, 1 stop
- 2) Note: Data is twos complement.

2. Stepper motor control command write

Send command:

Head (1byte)	Command (1byte)	Control command (1byte)	And parity (1byte)
B0H	61H	00H	11H

- (1) Control commands: 0 = Stop; 1 = start; 2 = stop; 3 = undriven.
- (2) and parity: The parity bit checksum data front, the lower 8 bits of data retention.

Response command:

Head (1byte)	Command (1byte)	and parity (1byte)
B0H	61H	11H

Note: The correct response to the above command is received instruction; receive the proper instruction sent, does not respond to any commands.

3. Written to the stepper motor

Send command:

Head (1byte)	Command (1byte)	Set pulse length (4byte)	Setting rotational speed (2byte)	Set acceleration progression (1byte)	And parity (1byte)
B0H	62H	00H,00H ,00H,00H	00H,00H	00H	12H

- (1) Set pulse length: 8 by the high and the low 8-byte integer binary number composed of a maximum set frequency 10KHZ.
- (2) setting rotational speed: 8-bit binary number is composed by a single byte of data, setting range from 1 to 99 corresponding to the duty cycle of 1% to 99%.
- (3) Set accelerated progression: Stepper motor accelerates progression (point 9).
- (4) and parity: The parity bit checksum data front, the lower 8 bits of data retention.

Response command:

Head (1byte)	Command (1byte)	And parity (1byte)
B0H	62H	12H

Note: The correct response to the above command is received instruction; receive the proper instruction sent, does not respond to any commands.

4. Stepper motor control data read-out

Send command:

Head (1byte)	Command (1byte)	And parity (1byte)
B0H	63H	13H

(1) and the parity: The parity bit checksum previous data, retaining the low 8 bits of data.

Response command:

Head (1byte)	version number (1byte)	instruction is executed (1byte)	Accumulated pulse length (4byte)	real-time speed (2byte)	accelerated progression (1byte)	And parity (1byte)
B0H	A1H	00H	00H,00H ,00H,00H	00H,00H	00H	51H

(1) Version: module version number arranger

(2) Run the command: host computer to execute instructions given module.

(3) Accumulated pulse length: stepper motor accumulated pulse length.

(4) real-time speed: Real stepper motor speed (pulses / sec).

(5) Accelerated progression: Stepper motor accelerates progression (of 9).

Note: The correct response to the above command is received instruction; receive the proper instruction sent, does not respond to any commands.