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UWC4800 eight-axis motion card

UWC4800 is a universal eight-axis motion controller of Lianying Measurement and Control. It adopts advanced DSP+FPGA architecture, is powerful and flexible to use, is not restricted by the functions and performance of Motion-ASIC (motion control dedicated chip), and can modify technical parameters, customize and expand

Features | Technical specifications | system applications | Download

1. Advanced upper and lower computer structure, using DSP+FPGA architecture

2. Adopt 100M Ethernet communication, fast communication speed, 0.42-0.43 milliseconds/time, compatible with Windows 7, 8 (32 and 64 bit) operating systems

3. 8-axis grating ruler/encoder and other feedback element counting, support position matching trigger output, external input trigger latch

4. 8-axis motion control, supporting differential and single-ended connection

5. Pulse + direction closed-loop control can be used, and feedback elements can be used as mechanical coordinate system

6. +10V closed-loop control can be used, using feedback elements as the mechanical coordinate system

7. Open-loop control is possible, with pulse instructions as the mechanical coordinate system

8. Fully closed-loop motion control based on grating ruler/encoder feedback is fast, accurate and stable; when using open-loop control, it has the advantages of simplicity and convenience, but the positioning accuracy is relatively poor

9. Supported motion control modes: GoHome, Jog, PTP (single-axis point motion), multi-axis linear interpolation motion, 2-axis circular interpolation, Joystick (joystick teaching), TouchMove (probe point sampling motion).

10. The grating ruler or command coordinate counter has the function of high-speed position matching output and latch input, which can realize functions such as flying shooting and laser knife scanning detection.

11. Equipped with servo alarm detection, servo enable, and servo alarm clearing interfaces

12. The controller has 12 universal inputs and 10 universal outputs. It can be used as universal input when the servo alarm detection signal is not used, and can be used as universal output when the servo enable or servo alarm is not cleared.

13. RS232 interface can be connected to UWC348HS high-speed IO module, adding 24 general inputs and 24 general outputs. The input and output status of the IO module and the time delay of UWC4800 are <1.4 milliseconds

14.2-channel 0-3.3V analog acquisition function, 12-bit resolution, with front-end signal processing circuit, can collect physical signals such as pressure and temperature

15.2-way 0-100mA current (sucking) output function, 12-bit resolution, can control the brightness of 2 sets of LED light sources; with the post-signal processing circuit, it can control the inverter, proportional flow valve/proportional pressure valve, etc.

16. Equipped with 2 RS232 and 2 HSIO (high-speed digital communication interface), different process modules can be connected according to the process requirements of different equipment, such as connecting HMI, zoom lens module, instrument unit, teaching control box, etc.

17. Equipped with a touch probe interface, which can be connected to the full range of Renishaw and Tesa touch probes, and has automatic parking, rebound and automatic workpiece search and rebound functions

18. Blade-type multi-axis motion controller saves space in the power distribution cabinet

19. It has the function of online upgrading the controller software system, and the controller does not need to be removed from the equipment during upgrading.

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