

NexROBO SCARA Edu Package

Open Robot Package
For SCARA Robot



Contents

- SCARA Robot Body
- Servo Motors and Wiring Circuit
- Control Cabinet
- Open Robot Controller

Product Overview

EtherCAT-based NexROBO Edu package provides an open programming environment for users to develop their own robot control. It consists of a 4-axis SCARA robot and a robot controller in the control cabinet. Motor drives, I/O signals and related circuits are all integrated based on EtherCAT control network. Single-axis movement for every axis can be easily operated by provided examples. This package is suitable for academy study and R&D research of basic robotic control.

Specifications

Robot

- Degree of freedom: 4
- Nominal load capacity: 6kg
- Motion Range
 - Maximum reach radius: 600mm
 - J1: $\pm 130^\circ$
 - J2: $\pm 150^\circ$
 - J3: 200mm
 - J4: $\pm 360^\circ$
- Position repeatability
 - J1+J2: ± 0.02 mm
 - J3: ± 0.01 mm
 - J4: ± 0.01 mm
- Cycle time: 0.5 s
- Weight: 20 kg
- J3 (Z-axis) Push Force: 100N
- Installation: Floor, wall-mounting

Controller

- Intel® Core™ i5-520M processor pre-installed
- 2 x 2GB DDR3 SDRAM, pre-installed
- 500GB HDD
- 1 x EtherCAT port
- 1 x Intel® GbE LAN port
- Dual VGA or VGA/DVI Independent Display

- 6 x USB 2.0 ports
- 3 x RS232 and 1 x RS232/422/485 with Auto Flow Control
- 1 x PCI expansion (10W max./ per slot, 169mm max. length)

Programming

- Language: Visual C/C++
- Command Set: Positon Command, Velocity Command, Torque Command
- Parameters: position, velocity, torque
- RT Example (RTX project)
- User API Example (win32 dll project)

Ordering Information

Robot Package

- **NexROBO SCARA Edu Package (P/N: TBC)**

Optional

- **Robot Stand (P/N: TBC)**
- **Teach Pendant (P/N: TBC)**