NexCOBOT Articulated Robot

Open Robot Package For Articulated Robot

Main Features

- Standard EtherCAT communication
- Robotic function APIs provided
- 1 ms control cycle time

Product Overview

NexCOBOT provides an open programming environment for users to develop their own robot applications. It consists of a robot body and NEXCOBOT's robot controller in the control cabinet. Motor drives, I/O signals, and related circuits are all integrated based on EtherCAT control network. I/O and motor control can easily be expanded through EtherCAT communication. Besides general system configuration, NexROBO solution always allows the flexibility to change components in the robot system for unlimited possibilities.

Specifications

Robot

- Degree of freedon: 6
- Nominal load capacity: 7 kg
- Motion Range
- Maximum reach radius: 912 mm (Point P)
  J1: ±170°
  J2: +110°~-85°
  J3: +66°~-180°
  J4: ±180°
  J5: ±120°
  J6: ±180°
- Position repeatability: ±0.08 mm
- Weight: 38 kg
- Installation: Floor, ceiling, wall-mounting

Control Cabinet

- Intel® Celeron® processor G3900 Duad Core 2.8GHz (Skylake)
- 4GB DDR4 2400 SO-DIMM memory
- 128 GB SATAIII SSD
- 1 x COMs (RS232/422/485 with Auto flow control (default RI))
- 1 x HDMI
- 4 x USB 2.0, 2 x USB 3.0
- 2 x LAN (I211AT)

Programming

- Language: visual C/C++
- Command set: position command, velocity command, torque command
- Parameters: position, velocity, torque
- User API example (Win32 dll project)
- GUI example (C# project)

Ordering Information

Robot Package

Open Robot Package For Articulated Robot Package (P/N: TBC)

Dimension Drawing