

Motion Control Platform and Customization Services

Aug- Dec 2021

Book a Free Trial!



Software Customization



Verification Customization



System Customization



Hardware Customization

Targeting vertical industry applications such as industrial automation, CNC machine tool, robotics, machine vision, AIoT, NexCOBOT provides one-stop customization services to build your dedicated machine and robot.

Don't miss the opportunity to get a free trial of NexCOBOT's motion control software suite NexGRC, NexGMC, and NexECM. From now till December 2021, with a purchase of NexCOBOT's controller platform products, we provide a free trial of NexCOBOT's motion control software for robotics, general machines, or EtherCAT master software. Such software is ideal for machine applications such as welding, machining, cutting and simulation. Free online training courses and case sharing are also available to help you get started. Limited time offer! Please contact us for details!



NexGRC

EtherCAT Robot Control Software

- Support Cartesian, SCARA, Delta, 6-axis and 7-axis articulated robot
- Provide simulation of robot
- Robot PTP and motion tween
- Tool/BASE Setting
- Provide Windows API



NexGMC

EtherCAT Motion Control Software

- Support 64 axes motion control
- Support 8 groups motion
- Single Axis Motion: PTP/Jog/Halt/Stop
- Group Motion: PTP/linear/3D arc
- Provide Windows API
- Powerful utility - NexMotion Studio





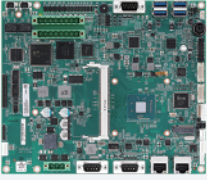





NexECM

EtherCAT Master Software

- Standard EtherCAT communication
- Support up to 64 slave modules
- Communication cycle up to 250 μs
- Support DC, PDO, SDO, CiA402, CoE, FoE
- Provide Windows API
- Powerful utility - NexECM Studio
- Import ESI files and export ENI files

Motion Control Platform Products

	355 Series	100 Series
Application	<p>EtherCAT System General Machine</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>NexECM</p> </div> <div style="text-align: center;">  <p>NexGMC</p> </div> </div>	<p>EtherCAT System Robot System</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>NexECM</p> </div> <div style="text-align: center;">  <p>NexGRC</p> </div> </div>
Hardware Single Board <i>Suitable for customized electronic control system</i>	 MCB355	 RCB100
Hardware Fanless PC <i>Suitable for slide rail and desktop application</i>	 MARS355	 MARS100

Differences between standard and customized motherboards

Item	Standard Industrial MB	Customized Motion Control MB
Dimensions	Standard (3.5", mini ITX, Micro ATX, ATX....)	Depending on customer's dimension and installation, dedicated machine concept
Power supply	Input: 9~30VDC, Only 12V	Input /Output
Protection&Isolation	N/A	Power input, LAN, COM, USB2.0, GND isolation
Special I/O	Standard	D/I, D/O, WDT, Encoder, GPIO, HDBaseT, MXM Slot, MVRAM, PoE
LAN chip	Unlimited	Intel I210/I211, EtherCAT support
BIOS	No special function	Adjust the settings to increase performance, depending on the type of RTOS
RTOS (RTX,InTime)	N/A	Need performance test