

Main Features

- Support common robot types: 6-axis and 7-axis Articulated/Delta/SCARA type
- Up to 4 robots in one controller
- Up to 16 extension single-axis
- Support PTP, LINE, ARC, Contour, Conveyor tracking motion operations
- Powerful configuration utility: NexMotion Studio
- Ready-to-use teach-pendant software: NexTPUI
- Provide robot 3D simulation
- Provide windows APIs for user programming
- Support PC programming language: C\C++, C#, VB.Net, Python etc.

Product Overview

NexGRC (General Robot Control) is developed by NexCOBOT as a powerful robot control software that integrates NexECM and motion control kernels. It supports several standard robots like articulated robot (6-axis and 7-axis), SCARA robot and Delta robot. The NexGRC provides Microsoft Windows APIs for users to develop their own robot control applications and HMI. NexGRC also provides a powerful integrated development environment “NexMotion Studio”, which users can use to easily configure EtherCAT slaves and motion axes or group axes parameters.

Specifications

Realtime OS

- INtime

Supported Axis No.

- Up to 16 axes

Supported Group No.

- Up to 4 groups

Single Axis Motion

- PTP, Jog, Halt, Stop, Speed/ACC/DEC override, blending

Group Motion

- PTP, Linear, Circular, Speed/ACC/DEC override, blending

Supported Group Types

- Cartesian, SCARA, Delta, 6-axis and 7-axis Articulated

Example

- VC\C#

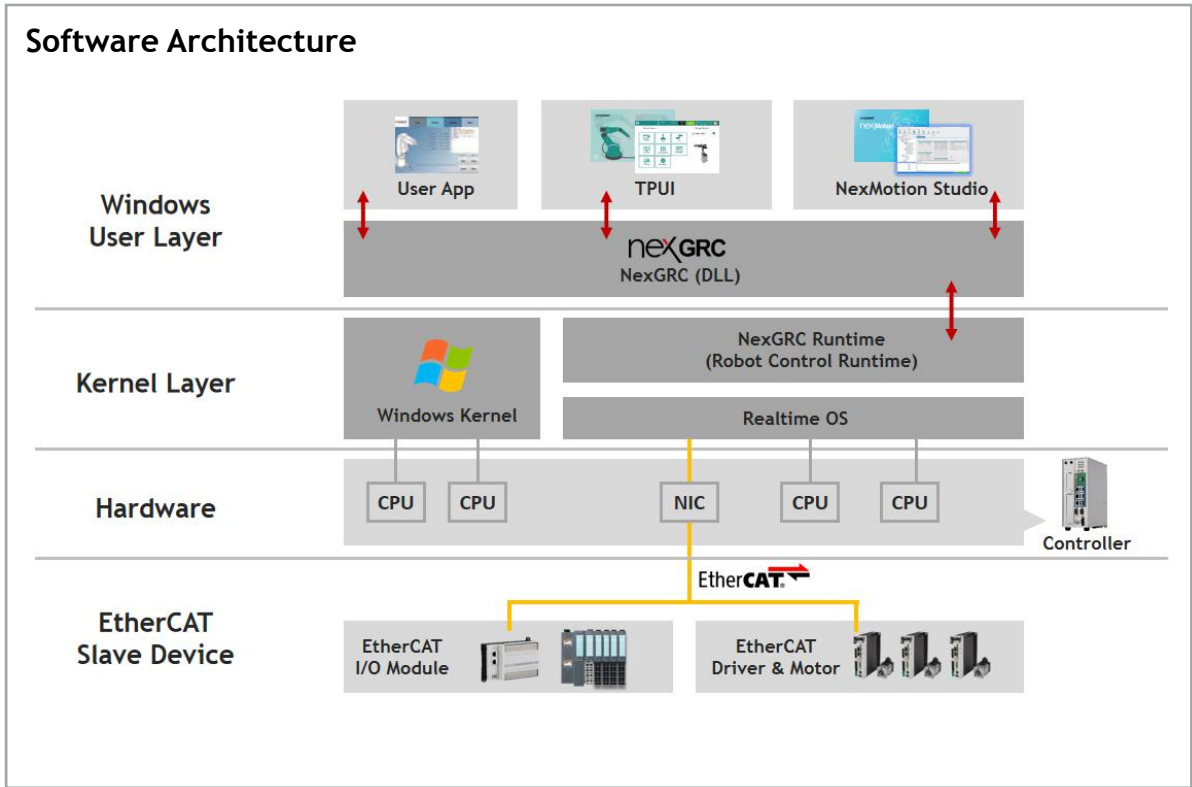
TPUI (Teach Pendant HMI)

- Optional

Powerful Utility

- Nexmotion Studio
 - EtherCAT devices offline edit and online scan
 - EtherCAT master configuration
 - PDO mapping edit
 - Online SDO edit
 - Export ENI
 - CiA 402 device operation: PP/PV/PT/CSP
 - Single axis edit and operation
 - Group axes edit and operation
 - I/O mapping edit and operation
 - Provide simulation operation mode

Software Architecture



Ordering Information

NexGRC (P/N:98ROBO000007)

NexGRC Realtime Software