

### Main Features

- Support 16 axes motion control
- Support 2 groups motion
- Support group line interpolation
- Support group circular interpolation
- Provide simulation operation mode
- Provide 3D View function
- Microsoft Windows API
- Powerful Utility: NexMotion Studio

### Product Overview

NexGMC (General Motion Control) is developed by NexCOBOT as a powerful motion control software that integrates NexECM and motion control kernels. It can be used for any general machines that are EtherCAT-based motor driver. The NexGMC provides Microsoft Windows APIs for users to develop their own motion control applications and HMI. NexGMC also provides a powerful integrated development environment “NexMotion Studio”, which users can use to easily configure EtherCAT slaves and motion axes or group axes (ex: XY table) parameters.

### Specifications

#### Realtime OS

- INtime

#### Supported Axis No.

- Up to 16 axes

#### Supported Group No.

- Up to 2 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 coordinates machine (XY, XYZ table, XYZ&θ)

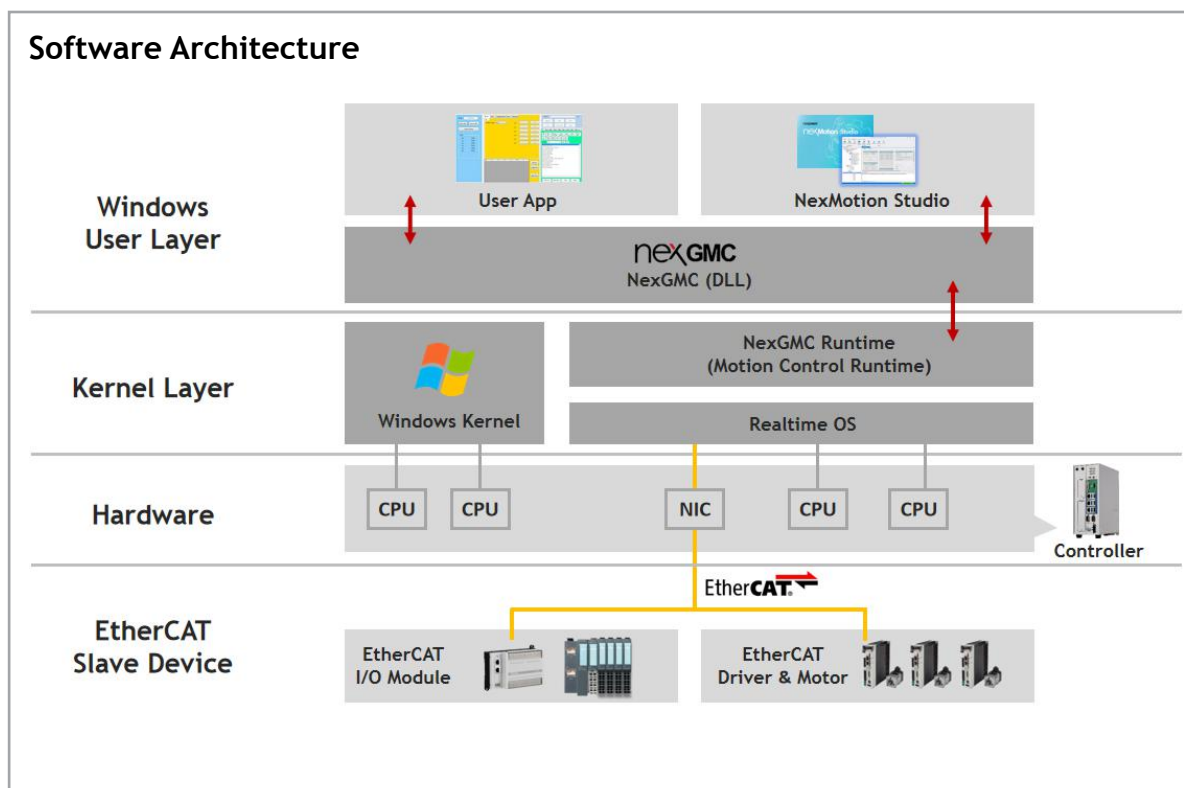
#### Example

- VC\C#

#### 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

**NexGMC (P/N:98ROBO000004F)**

NexGMC-16 16-axis Realtime Software