

Enhance light-duty applications with economical servo



Cost-effective modern servo technology

Designed to meet the evolving demands of modern machine automation, this servo solution delivers optimal performance motion control in a cost-effective solution. Combining modern servo technology, high-speed EtherCAT real-time network, and an intuitive engineering environment, it enables seamless integration, faster commissioning, and reliable operation. With the optimal balance of performance, functionality, and value, it empowers you to enhance productivity, reduce development time, and strengthen your competitive advantage.

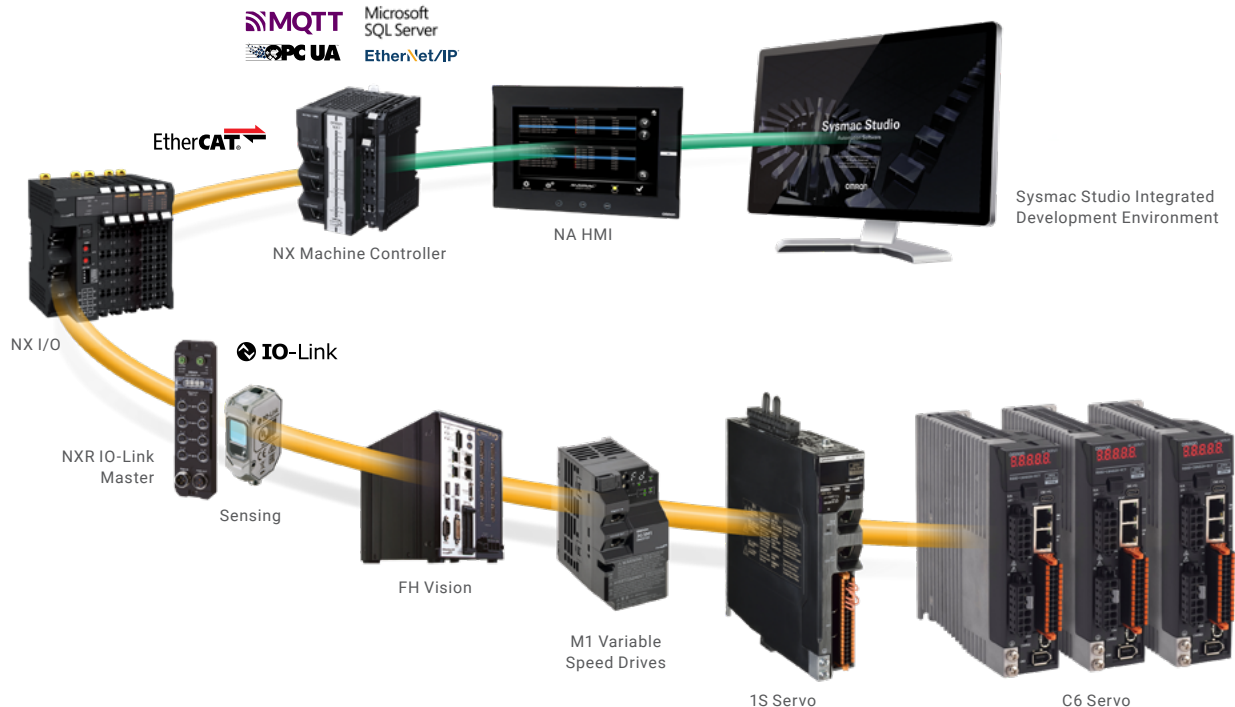


Servo features

- Simpler installation and wiring, higher control cabinet design efficiency.
- Power range from 50 W to 7.5 kW
- High bandwidth of 3.5 kHz
- Equipped with a 26-bit encoder resolution
- Absolute encoder with battery backup; also configurable for incremental operation
- Full closed-loop control for high-precision positioning
- Safety Function: Hardwired Safe Torque Off (STO), PLe, Cat. 4 and SIL 3, compliant with EN ISO 13849-1, EN IEC 61508, EN IEC 62061, EN IEC 61800-5-2 and UL 61800-5-2
- Compliant with the latest international safety standards CE and UL

Seamless Integration with OMRON Automation Platform

C6 Servo System combined with the Sysmac Automation Platform delivers a fully integrated solution for high-performance machine automation.



Designed for Space-Saving and Efficient Installation

The compact drive footprint, with a consistent height across the power range up to 3 kW, helps to reduce control cabinet size. Simplify installation and wiring streamline cabinet design, shorten assembly time, and reduce overall installation costs.



Up to 7.5 kW

Motor power range from 50 W to 7.5 kW, enabling a single servo platform to support a wide variety of applications



Machine Controller

MQTT

OPC UA

Microsoft
SQL Server

EtherNet/IP

EtherCAT



NX Series - Information, Control and Safety

- Built-in network connectivity, 2x Ethernet (1 Gbps) ports + 1 EtherCAT
- IoT protocols: OPC UA, MQTT, SQL DB
- Synchronized motion core. Number of axes: 16, 32, 64, 128 and 256
- CIP-Safety and Safety over EtherCAT protocols in the same machine automation platform

Servo System

High performance

EtherCAT
Safety over
EtherCAT



1S



Coming soon 3S

1S/ 3S - High performance servo

- Up to 15 kW
- High-performance servo system
- Battery free Multi-turn ABS encoder
- Safety over EtherCAT – STO, SS1, SLS, SSM (3S), SLT (3S)

Standard performance

EtherCAT



C6

C6 - Economic servo

- Up to 7.5 kW
- 26-bit encoder accuracy
- Cost-effective
- Hardwired Safe Torque Off - STO

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