## OMRON

## **NX5 Machine Automation Controller**

Integrated control, information, and safety brings a new level of speed to manufacturing sites





# High speed processing and large data transfer to achieve high precision control and traceability



Maintain quality product production that adapts to changes in workpieces, usage environments, and equipment





#### Control

#### Control for fast-cycle, high-precision processing

- $\cdot$  Controls 32 axes with cycle time of 250  $\mu s$
- Used motion control servo axes : 64, 32, 16 axes
- Program capacity : 80 MB
- Memory capacity for variables : 260 MB<sup>\*1</sup>

#### Information

#### Various networks for diverse information utilization

#### SQL functionality

• Reliable, rapid, and easy direct access to databases and utilization of production data

#### MQTT support

Direct connection to cloud for easy, fast, and secure data collection

#### **OPC UA functionality**

Secure connection to IT systems such as MES and ERP

#### Expanded EtherNet/IP

 10 x 1 Gbps ports for high-speed, high-capacity communications (when connecting four NX-EIP201 units)

#### Safety

## 2 different open networks ideal for safety control of production lines and machines

#### Fail Safe over EtherCAT (FSoE)

- High speed and high reliability with redundancy, suitable for safety control in machine
- 254 connections for large and flexible production line

#### Common Industrial Protocol Safety (CIP Safety)

- High scalability, suitable for safety control across production line
- Up to 8 separate networks for network modularization

### NX5 integrates control, information, and safety





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