

High-End IIoT PLC

AX-5 New

Scalable, Fast, and Versatile | Multiple Protocols Integrated | IIoT-Ready

An all-in-one CPU provides an EtherCAT I/O system with IIoT capability for advanced motion applications with **DIA Designer-AX** software platform

- Utilizes quad core processor to ensure both motion and data exchange performance
- Supports up to 8/12/16/32/64-axis EtherCAT motion control ability
- High performance: min. basic instruction execution time: 1ns; min sync. time: 0.5ms for 16 axes
- Supports new generation AX-5 series ultra slim (12mm) power/digital/analog/temperature I/O modules (max. 4,096) and 100MHz EtherCAT system I/O bus
- Built-in EtherCAT, CANopen, PROFINET, Modbus, EtherNet/IP, OPC UA, MQTT, and FTP protocols
- Onboard USB Type A interface supports 3rd party Wi-Fi and Bluetooth dongles
- IEC 61131-3 compliant software provides a standardized programming and controller development platform, offering motion instructions such as position, velocity, torque, multi-axis interpolation, E-gear, E-CAM, and more



CPU

05 Control

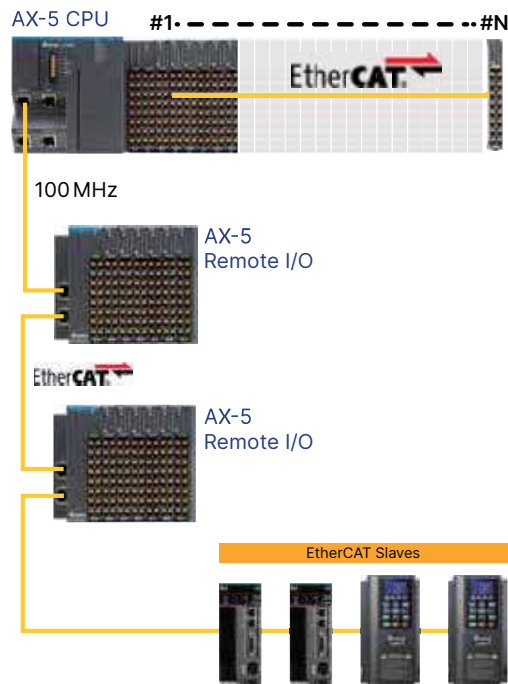


Coupler



I/O Module

100 MHz EtherCAT I/O system



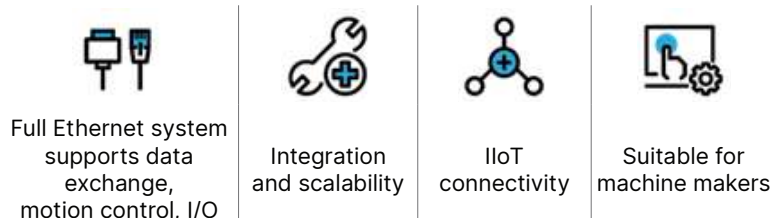
High performance all-in-one CPU

- Arm Cortex Quadcore Processor: Multi-tasking to ensure both motion and data exchange performance
- Supports multiple protocols

EtherCAT
EtherNet/IP
MQTT
FTP

OPC UA
Modbus
CANopen
PROFINET

Reduces product, engineering, and service costs by a fully integrated development platform



Applications

Lithium Battery, Woodworking, Textiles, Logistics/Warehouse, High-end industrial machines