



Kinco AK8X0 series controllers, preemptive Release EtherCAT Bus-based Motion Controller

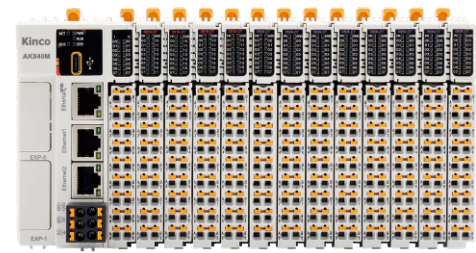
AK840M-0808DTN

CPU: quad-core 64-bit Arm Cortex-A53,1.4GHz

Standard Platform: Development environment fully supports IEC31131-3 standard CoDeSys programming software

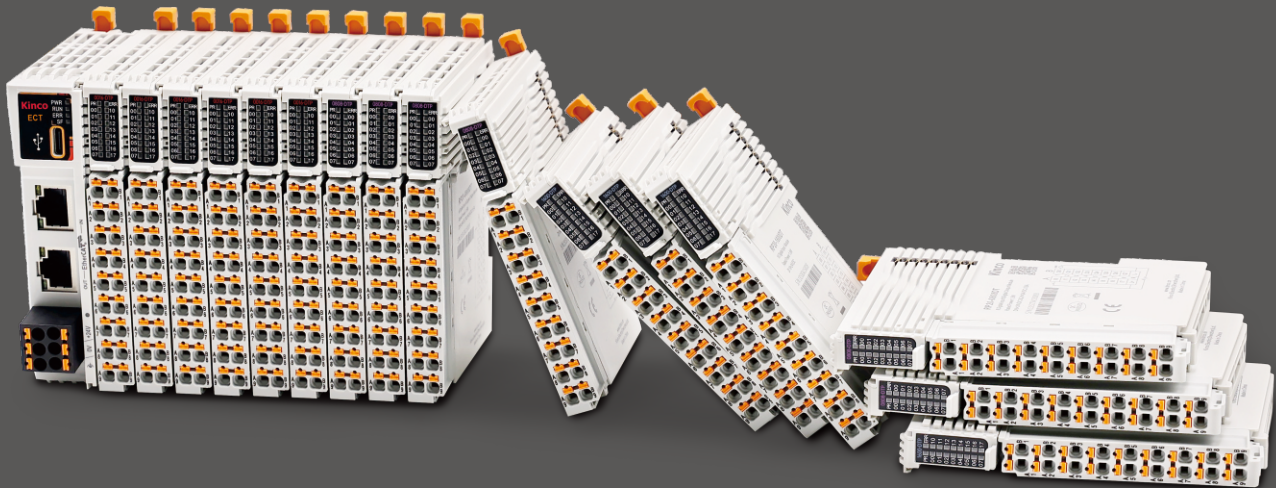
Motion Control Capability: Leveraging mainstream EtherCAT bus, enabling synchronous motion control for up to 32 axes.

Modular Design: Features modular and compact design, with the main body equipped with 8 digital inputs and 8 digital outputs.



AK840M-0808DTN

Model	Description
AK840M-0808DTN	32-axis EtherCAT bus-based motion controller
Technical Specifications	
Rated Input Voltage	24V DC +/-20%
Rated Power	6W(CPU unit only)/20W(Full-load)
Protection	Short Circuit ProtectionReverse
	Connection Protection
	Surge Suppression
Communication Interfaces	1*EtherCAT
	2*Ethernet
	1*RS-485
	1*USB OTG
Expansion	K-bus
Motion Control	Supports motion control functions such as electronic gearing, electronic cam, interpolation, etc., for 8 to 32 axes with a cycle time of 1ms to 4ms.
Program Memory	32MB
Data Memory	32MB
Non-volatile Storage	1MB
DI Specification	
Type	PNP
Input-channel	8
Rated Input Voltage	24V DC, with a maximum allowable voltage of 30V DC
Input Impedance	5.4K
Logic Level "0"	< 5V,0.8mA
Logic Level "1"	> 11V,2mA
Input Delay	< 2.5uS
Isolation	Optoelectronic isolation, 500VAC per minute
Status Indicator	Corresponding LED lights up in green when an input signal is detected
DO Specification	
Type	NPN(transistor)
Output-channel	8
Rated Input Voltage	24V DC, with a maximum allowable voltage of 30V DC
Output current per channel	500mA @ 24V DC Max.
Output LeakageCurrent	Max. 10μA
Output Impedance	Max. 0.3Ω
Output Delay	< 5uS
Protection	Inductive Load Output ProtectionShort Circuit Protection
Isolation	Optoelectronic isolation, 500VAC per minute
Status Indicator	Corresponding LED lights up in green when an output signal isdetected



Kinco RP20 Series, preemptive Release Distributed I/O Module

Expansion Bus

EtherCAT bus protocol, fast data response, strong expansion capability."

Modular Design

Compact and easily installable modular design, with independent modules, pluggable terminals, high integration.

K-bus

Kinco-RP20 series dedicated bus, with microsecond-level IO refresh.

Kinco RP20 Series, preemptive Release Distributed I/O Module



Model	Description
RP20C-ECT	EtherCAT-Based Bus Coupler
Technical Specifications	
Rated Input Voltage	24V DC +/-20%
Rated Power	2.5W(Coupler unit only)/20W (Full-load)
Protection	Short Circuit Protection Reverse Connection Protection Surge Suppression
K-bus	Rate: 100Mbps Typical IO Refresh: With 16 RP20 modules, achievable down to 60us.
Expansion Capability	Supports up to 16 RP20 Expansion Modules
*K-bus Bus is a proprietary protocol for Kinco-RP20 series.	

Product list

Model	Description
RP20C-ECT	EtherCAT-Based Bus Coupler
RP20-0016DTP	DO 16*24V DC, PNP
RP20-0016DTN	DO 16*24V DC, NPN
RP20-1600DT	DI 16*24V DC
RP20-0808DTP	DI 8*24V DC, DO 8*24V DC, PNP
RP20-0808DTN	DI 8*24V DC, DO 8*24V DC, NPN
RP20-0008DR	DO 8*Relay
RP20-0400IV	AI * 4: 4-20mA/1-5V/0-20mA/0-10V/0-5V
RP20-0400RD	AI 4* RTD
RP20-0400TC	AI 4* TC
RP20-0004IV	AO * 4: 4-20mA/1-5V/0-20mA/0-10V/0-5V
RP20-0202IV	AI * 2: 4-20mA/1-5V/0-20mA/0-10V/0-5V AO * 2: 4-20mA/1-5V/0-20mA/0-10V/0-5V
RP20-PW	Power supply module, Powered by 24V DC, Rated Power:20W