

AX500 Intelligent Controller Intelligent Controller User Guide

AX500 Intelligent Controller

AX500 intelligent controller is a medium-sized PLC developed based on CODESYS. It fully supports IEC61131-3 programming system and multiple site real-time bus. It supports cam, CNC, and other synchronous movement control providing various interfaces to meet the needs of projects. This manual describes the specifications, characteristics and using methods of the AX500 controller. For the user program, hardware information and other information of this product, please refer to the other manual.

Safety Instructions

Safety Precautions

1. Before installing, operating, and maintaining the product, please read and observe these safety precautions.

2. To ensure personal and equipment safety, please follow all marks on the product and safety

precautions of the manual when installing, operating, and maintaining the product.

3. The "CAUTION", "WARNING" and "DANGER" items in the manual do not represent all the safety matters to be observed but are supplementary to all safety precautions.

4. This product should be used in an environment stated in the design specifications. Otherwise, it may cause malfunctions. Functional abnormalities or component damages caused by failure to comply with relevant regulations are not at the range of product quality guarantee.

5. Our company will not bear any legal responsibility for personal safety accidents, property losses, and others caused by irregularities.

Safety Level Definition

MARNING: Indicates the improper operation which, if not avoided, may cause death or

serious injury;

CAUTION: Indicates the improper operation which, if not avoided, may cause moderate or

minor injury, as well as equipment damage.

Please keep this guide well so that it can be read when necessary and forward this guide to the end user.

Control System Designing

MWARNING

• Provide a safety circuit outside the PLC so that the control system can still work safely once external power failure or PLC fault occurs.

◆ Add a fuse or circuit breaker because the module may smoke or catch fire due to long-time overcurrent caused by operation above rated current or load short-circuit.

ACAUTION

• An emergency stop circuit, a protection circuit, a forward/reverse operation interlocked circuit, and a upper position limit and lower position limit interlocked circuit must be set in the external circuits of the PLC to prevent damage to the machine;

• To ensure safe operation, for the output signals that may cause critical accidents, please design external protection circuit and safety mechanism;

• Once PLC CPU detects abnormality in the system, all outputs may be closed; however, when a fault occurs in the controller circuit, the output may not be under control. Therefore, it is necessary to design an appropriate external control circuit to ensure normal operation;

• If the PLC's output units such as relays or transistors are damaged, the output may fail to switch between ON and OFF states according to the commands;

◆ The PLC is designed to be used in indoor electrical environment (overvoltage category II). The power supply must have a system-level lightning protection device, assuring that overvoltage due to

lightning shock can't be applied to the PLC's power supply input terminals, signal input terminals and output terminals and so forth, so as to avoid damage to the equipment.

Wiring

MWARNING

• Wiring must be carried out by personnel who have the necessary electrical training and experience.

• Disconnect all external power supplies of the system before wiring. Failure to comply may result in electric shock, module fault or malfunction.

• Install the terminal cover attached to the product before power-on or operation after wiring is completed. Failure to comply may result in electric shock.

• Perform good insulation on terminals so that insulation distance between cables will not reduce after cables are connected to terminals. Failure to comply may result in electric shock or damage to the equipment."

ACAUTION

• Prevent dropping metal filings and wire ends drop into ventilation holes of the PLC at wiring. Failure to comply may result in fire, fault and malfunction.

• The external wiring specification and installation method must comply with local regulations. For details, see the wiring section in this guide.

• To ensure safety of equipment and operator, use cables with sufficient diameter and connect the cables to ground reliably.

◆ Wire the module correctly after making clear of the connector type. Failure to comply may result in module and external equipment fault. Tighten bolts on the terminal block in the specified torque range. If the terminal is not tight, short-circuit, fire or malfunction may be caused. If the terminal is too tight, fall-off, short-circuit, fire or malfunction may be caused.

◆ If the connector is used to connect with external equipment, perform correct crimping or welding with the tool specified by manufacturer. If connection is in poor contact, short-circuit, fire or malfunction may be caused.

◆ A label on the top of the module is to prevent foreign matters entering the module. Do not remove the label during wiring. Remember to remove it before system operation, facilitating ventilation.

• Do not bundle control wires, communication wires and power cables together. They must be run with distance of more than 100 mm. Otherwise, noise may result in malfunction.

• Select shielded cable for high-frequency signal input/output in applications with serious interference so as to enhance system anti-interference ability.

Maintenance & Inspection

MWARNING

• Maintenance & inspection must be carried out by personnel who have the necessary electrical training and experience.

• Do not touch the terminals while the power is on. Failure to comply may result in electric shock or malfunction.

• Disconnect all external power supplies of the system before cleaning the module or retightening screws on the terminal block or screws of the connector. Failure to comply may result in electric shock.

• Disconnect all external power supplies of the system before removing the module or connecting/removing the communication wirings. Failure to comply may result in electric shock or malfunction.

ACAUTION

• Get acquainted with the guide and ensure safety before online modification, forcible output, and RUN/STOP operation;

• Disconnect the power supply before installing/removing the extension card.

Disposal

ACAUTION

• Treat scrapped module as industrial waste. Dispose the battery according to local laws and regulations.

Product Information

Product Naming Rules



Product Nameplate



General Specifications

Item	AX500
Power Supply	DC 24V (-25% ~ +20%)
CPU Specifications	Quad-core 1.5GHz
Memory	2G
Hard Drive Capacity	8G
Program Capacity	32MB
User Data Capacity	128MB
Non-volatile Storage Capacity	3MB
USB	1* USB 2.0
Network	1* Gigabit Ethernet Port; 2* Fast Ethernet Ports
Serial Port	2* RS485; 1* RS232
Dimensions (mm)	$78 \times 98 \times 100$
Adapter Power Supply	Supports 24V DC Adapter Power Supply
Operating Temperature	-20°C~ +60°C
Axis Capability	Support 1ms for 8-axis synchronous control, with a maximum support of 48-axis synchronous control

Components Information



No.	Name	Name		cription		
	Status Indi	icator	Status]	us Indicator		
		ators on the display panel f	rom top	to bottom are P	WR/RUN/ERR/BUS, specific	
	Name	Sign		Status	Description	
	PWR	Power Indicator		Green	ON: Power On	
1)	RUN	Running Indicator		Green	ON: User Program Startup	
	ERR	Error Indicator		Red	ON: User Program Fault	
	BUS	Communication Indicator		Red	ON: Communication Fault	
	Network	3 Ethernet ports	s: EtherN	Jet, EtherCAT A,	and EtherCAT B. Provided in	
2		the form of RJ4.	5. Defult	IP are as follows:		
		EtherNET: 192.	168.1.10	0;		
		EtherCAT B: 19	2.168.2.	100.		

	Port	Function		Description	
	EtherNet	Ethernet		 User progr Modbus T Socket (T) 	
	EtherCAT A			 EtherCAT Master Support Auto-Scan Support Independent Configuration of Axis/IO 	
	EtherCAT B	EtherCAT/]	Ethernet		uto-Scan adependent Configuration of Axis/IO ram download and debugging CP
	Power Supply			er by DC 24 ribed as follow	4V, definition of the power terminals are
	Power Tern	ninal	No.	Туре	Function
			1	+24V	Positive Terminal
3	24V 0V ▲	1 2 3	2	0V	Negative Terminal
	u		3	GND	Ground Terminal
	The power input terminal is a 3-pin European terminal with a 5.08mm pitch, designed for screw fixation, making plugging and unplugging very convenient. The wiring employs a spring-cli crimping method, which is extremely user-friendly for on-site installation, wiring, replacement and maintenance.				
(4)	RUN/STOP			To activate	e/stop user program
5	Reset Button			IP;	s until the RUN light blinks to reset to default holding to clear the user program and restart.
6	TF Card Slot			System Fi	rmware Upgrade
$\overline{7}$	USB			File Transt	fer: firmware upgrade

	1	4858 COM1 GND 485A 4858 COM2 GND COM2	
	Pin	Name	Function
	1	485A	RS485+(COM1)
3)	2	485B	RS485-(COM1)
	3	GND	485 Communication Ground
	4	485A	RS485+(COM2)
	5	485B	RS485-(COM2)
	6	GND	RS485 Communication Ground
	7	232T	R232 Reception (COM3)
	8	232R	R232 Transmission (COM3)
	9	GND	RS232 Communication Ground

Power Terminal Arrangement



No.	Name		Descr	ription
	1 - 2 -	diagram and def	inition for the coupler ind910	dicator lights are as follows:
	3 - 4 - 5 - 6 - 7 -		 11 12 13 14 15 	
1	8 _ No.	Name	• 16 Function	Description
	1	24V	Power Indicator	IO Coupler and IO Module Uses Power Supply
	2	5V	Power Indicator	IO Coupler and IO Module Local Power Supply
	3			
	4	LINK	Communication Indicator	FLASHES: Normal Communication Between Modules
	5	ERR	Error Indicator	ON: Module Error
	6			

	7				
	8				
	9	DI0	Input Indicator	ON: Input Valid	
	10	DI1	Input Indicator	ON: Input Valid	
	11	DI2	Input Indicator	ON: Input Valid	
	12	DI3	Input Indicator	ON: Input Valid	
	13	DI4	Input Indicator	ON: Input Valid	
	14	DI5	Input Indicator	ON: Input Valid	
	15	DI6	Input Indicator	ON: Input Valid	
	16	DI7	Input Indicator	ON: Input Valid	
	The electrical	l pin diagram a	and pin definitions for	or the coupler are as follows:	
			-		
			2		
		⇒	3		
			Į		
		5	5		
		6	3		
			7		
2					
			, 10		
			10		
			.2		
	No.	Name	Fu	inction	
	1	F_24V		ower Input	
	2	F_0V		ower Input	
		L D D		1	
	3	PE		ound	
	3 4 5	DI0 DI1		[1	

7	DI3	DI4	
8	DI4	DI5	
9	DI6	DI6	
10	DI7	DI7	
11	DI8	DI8	
12	СОМ	Common Terminal	

DI Terminal Instructions

External F_24 and F_0V power supply are required when using the expansion module and the expansion modules. DI supports bipolar wiring.



Function Description

1. Status Indicator Function

Name	Status	Description
PWR	Green	ON: Power On
RUN	Green	ON: User Program Startup
ERR	Red	ON: User Program Fault
BUS	Red	ON: Communication Fault

The possible states of the RUN indicator are as follows:

(1) On when the user program is running; Off when the user program is stopped;

(2) Flashes rapidly during program downloading; Returns to a steady state after the download is completed;

(3) Flashes when the Wink button is clicked for device identification.

Select Device			\times
Select the Network Path to the Controller			
🗏 💑 Gateway-1	Device Name:	^	Scan Network
AX500 [0301.4064]	AX500		Wink
	Device Address: 0301.4064		

(4) RUN and ERR instructor flash alternately when no user program is found on the controller;

ERR indicator: On when user program error occured.

BUS indicator: On when communication error occured, indicates an abnormality in the device tree status, as illustrated in the diagram below.

Modbus_485_Master (Modbus 485 Master)
 Modbus_RTU_Device (Modbus RTU Device)
 Modbus_RTU_Device (Modbus RTU Device)
 F01_Read_Coils (F01 Read Coils)
 F02_Read_Input_Coils (F02 Read Input Coils)

2. User Program Download by USB

(1) To use a FAT32 formatted USB drive, copy the user program files (Application.app and Application.crc) to the root directory of the USB drive. Insert the USB drive into the controller's USB port, then restart the controller. The program will run automatically. (USB 2.0 support only)



Create boot application file

Save boot application →	~	Ō	Search New folder	
				D
rganise 🔻 New folder				=== -
	te modified	Туре	Size	
Modbus-rtu No ite	ms match your search.			
Modbus-tcp				
master				
modbus_t				
modbus_t				
slave				
■ 耦合器LW1100				
New folder				
File name: Application.app				
Save as type: Boot applications (*.app)				
Hide Folders			Save	Cancel
nuerolueis				
Save boot applie				
Applicat				
_ repried	ioniere			
, >This PC USB DISK (G:) >				
	1-			
^ 名称 ^	Date modif	ied	Туре	
 名称 System Volume Information 	Date modif 2024/1/8 13		Type File folder	
^ 名称 ^		:26	1 5 5	
▲ 名称 ~ ~	2024/1/8 13	:26 :03	File folder	

Copy the user program (Application. app and Application. crc) to the root directory of the USB flash disk, then insert the USB flash disk to the USB port of the controller, restart the controller.

(2) Download source code to hard drive of the program - 32MB Max

File	Edit	View	Project	Build	Online	Debu
1	New Pr	oject			Ctrl+	N
2	Open P	roject			Ctrl+	0
	Close P	roject				
	Save Pr	oject			Ctrl	+S
	Save Pr	oject as				
	Project	Archive				•
	Source	Upload				
	Source	Downloa	əd			
3	Print					
	Print Pr	eview				
	Page Se	tup				
	Recent	Projects				•
	Exit				Alt+	F4

3. Firmware Upgrade

Place the upgrade format firmware package in the root directory, then restart the controller. After a successful upgrade, an "upgradeOK" file will be generated.

(1) Place the firmware package in the root directory, then insert the USB drive into the controller's USB port. Restart the controller, and the upgrade will automatically take place. After a successful upgrade, a file named "upgradeOK" will be generated in the root directory. (USB 2.0 support only)



Place the firmware package under the root directory of the USB flash disk and insert the USB flash disk to the USB port of the controller, restart the controller

```
🧼 🕨 This PC 👂 USB DISK (G:) 🔌
```

Program Files Program Files (x86) steam_platform System Volume Info twak WeGameApps

1	^	名称	Date modified
		System Volume Information	18/01/2024 15:26
		量 壁纸	18/01/2024 15:26
		upgradeOK	18/01/2024 15:26
		firmware_update.upgrade	18/01/2024 16:31

A upgradeOK file appears after the upgrate successed

(2) Place the firmware package in the root directory of the controller through CODESYS, restart the controller, and a upgradeOK file will appear after the upgrade success.

rtu-master	Communication Settings	Host Location	- 🖿 🗙 💠	Runtime Location	1	- 🗀
PLC Logic	Applications	Name	Size Modifie	Name	Size	Modified
O Application	Applications	C:\		PlcLogic		
Library Manager	Backup and Restore 2	🖂 D:\		Cert		
PLC_PRG (PRG)	-	E:\		3S.dat	71 bytes	25/01/2024 10
Task Configuration	Files	📻 F:\				
	Oper	n the root dired	ctory of the control	ler		
	- F			lei		
Host Location 📻 🛙	-	• 🖻 🗙 💠	Runtime Location 🚞 /		- 🗀 🗘 >	<
Host Location 📻 D	-			Size	• 🛅 🗘 > Modified	
	2	- 🗀 🗙 💠	Runtime Location 🚞 /			
Name	2	- 🗀 🗙 💠	Runtime Location 🍙 /			
Name L	2	- 🗀 🗙 💠	Runtime Location 🍙 / Name PlcLogic Content S.dat			
Name L \$RECYCLE.BIN 360Downloads 360RecycleBin	2	- 🗀 🗙 💠	Runtime Location 🚞 / Name 🔁 PlcLogic 🥁 cert	Size	Modified 25/01/2024 10:56	
Name L \$RECYCLE.BIN 360Downloads 360RecycleBin ApowerREC	2	- 🗀 🗙 💠	Runtime Location 🍙 / Name PlcLogic Content S.dat	Size 71 bytes	Modified 25/01/2024 10:56	
Name L \$RECYCLE.BIN \$360Downloads 360RecycleBin ApowerREC BaiduNetdisk	k∖ Size	- 🗀 🗙 💠	Runtime Location 🍙 / Name PlcLogic Content S.dat	Size 71 bytes	Modified 25/01/2024 10:56	
Name L \$RECYCLE.BIN 360Downloads 360RecydeBin ApowerREC BaiduNetdisk BaiduNetdisk	k∖ Size	- 🗀 🗙 💠	Runtime Location 🍙 / Name PlcLogic Content S.dat	Size 71 bytes	Modified 25/01/2024 10:56	
Name L \$RECYCLE.BIN \$360Downloads 360RecycleBin ApowerREC BaiduNetdisk	k∖ Size	- 🗀 🗙 💠	Runtime Location 🍙 / Name PlcLogic Content S.dat	Size 71 bytes	Modified 25/01/2024 10:56	



Runtime Location	/	- 🗀 🗘 🗙
Name	Size	Modified
DICLogic		
🧀 cert		
🔜 3S.dat	71 bytes	25/01/2024 11:34
upgradeOK	0 bytes	25/01/2024 11:34

A upgradeOK file appears after the upgrate successed

(3) Upgrade the firmware through the software. Place the firmware package under the root directory of the controller. Restart the controller, and a upgradeOK file will appear after the upgrade success.

◎ PLC升级工具-V1.1 - □ ×	$\leftarrow \rightarrow$ \checkmark \uparrow \checkmark \rightarrow This PC :	新加卷 (D:)	✓ ひ Search 新加	睠(D:) ,	\delta PLC升级工具-V1.1	- 🗆 X
连接配置 1 Connection configuration	Organise * New folder			∥• ∎ 0	连接配置	****
IP地址: 12.168.2.10(连接 IP address connect 系统信息 System information 設また 0.02 Hardware Version 化市で System upgr Mitro Version 「IP address System upgr Supported axis Successful 2 Supported axis OK	 至 文档 ♣ Local Disk (C:) ▲ 新加卷 (D:) ♣ 新加卷 (E:) 	Name BaiduletdiskDownload clash Cektop Netease Program Files Program Files Program Files twak	Date modified 23/12/2023 21:02 16/05/2023 22:19 25/01/2024 11:17 15/01/2024 19:52 29/06/2023 13:47 27/06/2023 16:01 24/07/2024 19:25 15/05/2023 20:08	Type File folder File folder File folder File folder File folder File folder File folder File folder	IP地址: 12.168.2.104 系统信息 硬件版本 0 6歳像版オ 0 横作成功 固件版者 0 支持軸量 回件60.6 原列号uposeful 0	连接 .02 系统升级 × 动 上传固件
Serial number 2 Upload firmwar 更新因件 2 Upload firmwar Frimware update 名称 大小 修改日其^ PlcLogic 4096 Jan 08 … Cert Jan 01 1970 、 <	Libraries → Music = Pictures ✓	■ WeGarneApps ■ 迅雷下载 <u>4</u> □ firmware_update.upgrade	14/12/2023 21:05 25/08/2023 12:00 27/12/2023 14:05	File folder File folder UPGRADE File	更新固件 名称 cert firmware update.upg	大小^ Jan rade 50275、*

Enter the IP address to connect to the controller. After successful connection, upload the firmware

package and restart the controller

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A upgradeOK file appears after the upgrate successed

Multi-node Connection

When there are many nodes on the RS485 bus, it is imperative to use a daisy-chain topology. If branch topology is required for connections, the branch length from the bus to each node should be as short as possible, ideally not exceeding 3 meters.

The use of star-type connections is strictly forbidden. A diagram of common RS485 bus topologies is as follows:



Daisy-chain Connection

RS485 Bus







Star-type Connection (Prohibited)

RS485 Bus Wiring

When configuring the RS485 communication interface for the AX500 series programmable controller, ensure the following:

Three Cables: Make sure the on-site RS485 bus includes three cables, namely 485A, 485B, and GND. **Correct Wiring:** Check whether the wiring terminals are connected incorrectly or reversed. Ensure that 485A and 485B are not reversed, and GND is correctly grounded.

Use of Shielded Cables: If using shielded cables, ensure that the shield layer is connected to the GND terminal.At any node or midway point, besides connecting the shield layer to the GND at the node, it is prohibited to connect the shield layer to any other location (including the on-site casing, equipment grounding terminal, etc.).

Cable Specifications: For cables with lengths exceeding 3 meters, it is recommended to use AWG26 or thicker cables to reduce cable attenuation. It is advised to always use twisted pair cables to connect 485A and 485B, reducing electromagnetic interference and improving signal quality.



- Recommended Cable 1: Multi-core cable with twisted pairs. Use one pair of twisted wires for connecting 485A and 485B, and twist the rest together to form the GND connection.
- Recommended Cable 2: Shielded twisted pair cable. Use the twisted pair for connecting 485A and 485B, and the shield for the GND connection.

RS232 Bus Wiring Description Description of RS232 Pin is as follows:

RS232	2
232R	
232T	
GND	

4. Ethernet Connection

No.	Nework Port	Function
1	EtherNET	Support programming protocols, connect to HMI, and communicate via Modbus/TCP.
2	EtherCAT A	EtherCAT master port A
3	EtherCAT B	EtherCAT master port B (Ethernet functionality optional)

The AX500 series controller provides 3 network ports, which are described as follows:

With the Ethernet port, the controller can be connected point-to-point with devices such as a computer, HMI, etc. via a single Ethernet cable.



The controller can also be connected to a hub or switch via its Ethernet interface to form a multi-point communication network with other devices.



Connection of the CPU module to other devices via a switch

Programming Tool Downloading

Free user programming software of Kinco AX500 series can be downloaded at:

Kinco official website: http://www.kinco.cn on the data download page. Users can also download product and application reference materials for the AX series there.

The official CODESYS website: http://www.codesys.cn/, with the recommended version: SP 3.5.18.

As Kinco continuously improves its products and materials, it is recommended that users timely update their software and refer to the latest published materials when needed.

Programming Environment and Software Installation

Operating Environment Requirements

Hardware requirements: Recommended 64-bit Windows 7 or Windows 10 operating system; computer RAM of 8GB, and more than 5GB of remaining space on the hard drive or SSD.

It is recommended that the computer's CPU clock speed is above 2GHz, as lower speeds may affect the software's operating speed.

The PC and AX500 controller are connected via a LAN network cable. It is recommended to connect the AX500 through a router to the LAN network. This method allows for longer communication distances and faster interactive communication rates between the PC and AX500, making it more convenient for remote debugging, such as programming and debugging equipment in the workshop from an office. Therefore, a spare LAN port is required in the local network.

Mechanical Design

Dimensions



Dimensions of AX500 (unit: mm)

Mounting

Mounting Guide

The AX500 controller adopts a snap-fit installation design, supporting snap-in mounting to meet the installation requirements of different-sized cabinets on-site.





Snap-fit Installation



Before installation, please ensure the device is powered off;
For specific mounting dimensions, refer to the "Mechanical Design Reference"

for the external dimensions;

• Do not overtighten the device to avoid damaging terminals and other components.

Add Device Packages to CODESYS

It is required to install the device package of the AX500 to the CODESYS package manager at the first operation of AX500. AX500 device package can be downloaded at Kinco official website or Kinco technical support.



Open the package manager



Allow unsigned and self-signed packages



Installation complete



Choose AX500 as the device when creating a new project

Warranty Agreement

This product comes with an eighteen-month warranty period (based on the information on the body's barcode. If there are special agreements, the terms of the purchase contract apply). During the warranty period, if the product malfunctions or is damaged under normal usage as specified in the user manual, our company will provide free repair services.

During the warranty period, repair fees for damages caused by the following reasons will be charged based on the extent of the damage and the difficulty of repair:

- a) Damage caused by incorrect use or unauthorized disassembly, repair, or modification;
- b) Damage caused by fire, flood, abnormal voltage, other disasters, or secondary disasters;
- c) Damage to hardware caused by accidental drops or during transportation while in use;

d) Damage caused by not following the operation instructions in the user manual provided by our company;

e) Faults and damages caused by external factors(such as external devices).

When the product malfunctions or is damaged, please accurately and thoroughly fill out the *Product Warranty Card*.

Repair costs will be assessed based on the extent of the damage. Please consult our after-sales service department for detailed charges.

The Product Warranty Card is generally not reissued. Please keep it safe and present it to the repair personnel during the warranty claim.

If you encounter any issues during the service process, please contact our agents or our company promptly.

Purchasing this product implies acceptance of this warranty agreement. Kinco reserves the right to interpret this agreement.

Product Warranty Card

	Company Address:				
Customer	Company Name:	Contact:			
Information	Postal Code:				
		Contact Phone Number:			
	Product Model:				
Product Information	Barcode (Barcode Sticker Area):				
	Agent's Name:				
	(Time and Explanation):				
Repair Information		Service Personnel's Name:			