

XINJE

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XS series PLCopen standard controller

High performance product | Efficient programming

Trusted Partner in Automation





Industrial intelligent controller



CPU	Main frequency	Synchronization period	Operating system
I7-1165G7	2.8GHz	1ms/256 axis	Windows Linux
Capacity	Communication	port	

USB3.0*4 RS232 EtherCAT*2 Program 128MB Data 128MB RS485



XSA530-W/L (256 axis)

Synchronization Operating

CPU	rrequency	perioa	system
I5-1135G7	2.4GHz	1ms/128 axis 2ms/256 axis	Windows Linux
Capacity	Communication	port	
Program 128MB	EtherCAT*2 Fthernet*4	USB3.0*4	RS232 RS485

XSA230-W/L

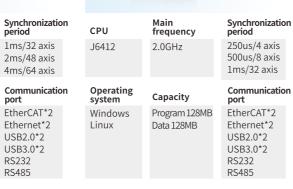
(64 axis)



	al c			\$1Q				
CPU	Main frequency	Synchronization period	CPU	Main frequency	Synchror period			
I3-1115G4	3.0GHz	1ms/256 axis	J3455	1.5GHz	1ms/32 a 2ms/48 a 4ms/64 a			
Operating system	Capacity	Communication port	Operating system	Capacity	Commun port			
Windows Linux	Program 128MB Data 128MB	EtherCAT*2 Ethernet*4 USB3.0*4	Windows Linux	Program 128MB Data 128MB	EtherCA Ethernet USB2.0*			

RS485



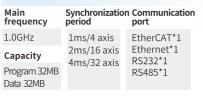


Standard controller



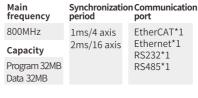
Main requency	Synchronizatio period	n Communication port
0GHz	1ms/4 axis	CAN*1
Capacity	2ms/16 axis 4ms/32 axis	EtherCAT*1 Ethernet*1
Program 32MB Data 32MB	41115/32 dXIS	RS232*1 RS485*1













Main frequency	Synchronization period	on Communication port
800MHz	1ms/4 axis	EtherCAT*1
Capacity	2ms/16 axis	Ethernet*1 RS232*1
Program 32MB Data 32MB		RS485*1

Basic functions

- XS3, XSDH, XSLH support 2-4 high-speed counting channels;
- Supports six programming modes: ST, SFC, FBD, CFC, LD, and IL;
- Support PLCopen programming specification, rich instruction set, and can reference many standard functional libraries;
- The XSA series is equipped with a built-in UPS to ensure the security of user data and equipment;
- The XSA series supports both local visualization and network
- The XSA series can be operated on either Windows or Linux operating systems.

Expansion capability

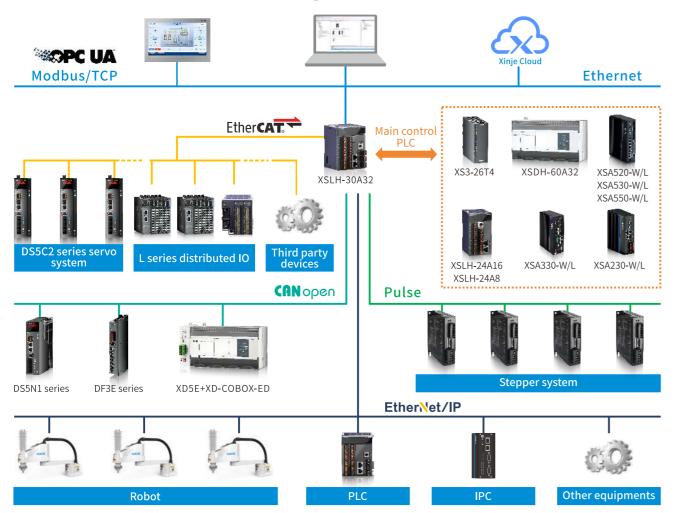
- XS3, XSDH, XSLH series support local extension of 16 modules and can also be extended through EtherCAT bus.
- XSA series only supports expansion through the EtherCAT bus.

Data 32MB

Communication ability

- Supports multiple communication protocols, including Modbus, TCP/IP, EtherCAT, OPCUA, Ethernet/IP.
- XSLH-30A32 supports CANopen communication.

One-stop control system



Support XS studio platform

XS Studio is a programming and configuration software developed by Xinje based on CODESYS V3.5, designed for the XS series.

It integrates PLC programming, visualization HMI, device information diagnostics, resource usage monitoring, fieldbus, and motion control functions. It provides a complete environment for configuration, programming, debugging, and monitoring, allowing flexible and powerful handling of IEC languages.



- 1 Powerful PLC software programming tool
- 2 Support IEC 61131-3 standard protocol
- Rich industry libraries and custom library development
- 4 Support almost all mainstream fieldbuses, ensuring communication with each unit's devices
- Provide HMI device data interfaces, enabling communication between thirdparty clients and the control system
- 6 Support OPC UA technology for crossplatform data transmission required by smart factories and Industry 4.0

Excellent EtherCAT control capabilities

- XS series controllers can communicate with various devices that use the standard EtherCAT protocol, offering a wide range of device types. These
 include the Xinje LFC3-AP series distributed IO, Xinje LC3-AP series distributed IO, DS5C2 series servo drives, DP3CL series stepper motors, and VH6
 series inverters, etc.
- Support complex motion control applications such as axis group, electronic cam, flying shear, CNC, and robotics.

XS3, XSDH, XSLH







EtherCAT nodes up to 256

Synchronous cycle up to 500us/128-axis 1ms/256-axis



Powerful computing capabilit equipped with up to

Multi-axis motion bus control

Multi-axis interpolation

EtherCAT nodes

up to 32

Support multi-axis linear, circular, and helical interpolation functions, making it effectively applicable to commonly used multi-axisinterpolationplatforms.

150 20 15

XSA

E-CAM

Electronic cam systems replace bulky mechanical cams in machining, offering higher precision and flexibility, which can effectively improve production efficiency. They are now widely used in equipment such as capping machines, pillow packaging machines, blow molding machines, and similar devices.

Support CNC

Support converting CAD image coordinates into G-code, support multiple robot control models.

Typical applications of XS

The EtherCAT bus features high reliability and real-time performance, allowing for a wide range of applications in the motion control field, such as in the electronics, packaging, chemical, and photovoltaic industries.

Lid and base dual-head forming machine

The equipment is composed of several parts including the Xinje XSA330-W industrial computer, TGM/TGA touch screens, DS5C1 servo drives, vision systems, and robotic arms. The system utilizes a total of 34 physical axes and 4 virtual axes. Additionally, it incorporates remote input/output modules to achieve long-distance signal transmission while ensuring real-time and fast communication. The entire production line employs a full cam control mode, which enhances the flexibility, system stability, and production efficiency. The equipment can achieve a maximum production efficiency of 45-50 units per minutes



Dicing machine

The equipment consists of several components, including the Xinje XSA330-W industrial computer, a display, HMI, servo motors, cameras, and lasers. The system utilizes label communication and includes a total of 34 physical axes, 8 cameras, and 2 lasers. It is capable of cutting two-segment and three-segment battery cells. The efficiency can reach up to 60 pieces per minute.



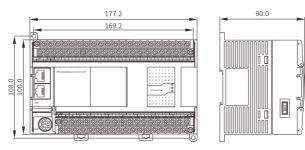
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Specifications

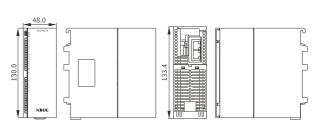
	Item		Specification									
Model			XSLH-30A32	XSLH-30A32 XSLH24A16/8 XSDH-60A32 XS3-26T4				XSA-230-W/L XSA330-W/L XSA520-W/L XSA530-W/L XSA550-W/L				
Program	ming met	hod				IL, LD	, FBD, ST,	SFC, CFC				
Program	capacity			32	МВ				128MB			
Data capacity			32MB (including 6MB power-off hold-on)					32MB (including 6MB power-off hold-on)				
Power	Power supply		Rated voltage DC24V Rated voltage AC220V		Rated voltage DC24V							
	Output p	ower supply	_	_	24VDC±10% Max400mA	_	_	_	_	_	_	
	Total points		30 points	30 points	60 points	26 points	6 points	32 points	32 points	32 points	32 points	
	Input	NPN	14 points: X0~X15	12 points: X0~X13	36 points: X0~X43	18 points: X0~X21	3 points: X0~X2	16 points: X0~X17	16 points: X0~X17	16 points: X0~X17	16 points: X0~X17	
I/O points	points	PNP	_	_	_	_	_	16 points: X0~X17	16 points: X0~X17	16 points: X0~X17	16 points: X0~X17	
	Output points	Transistor	16 points: Y0~Y17	12 points: Y0~Y13	24 points: Y0~Y27	8 points: Y0~Y7	3 points: Y0~Y2	16 points: Y0~Y17	16 points: Y0~Y17	16 points: Y0~Y17	16 points: Y0~Y17	
	politis	Relay	_	_	_	_	_	_	_	_	_	
	Encoder	Single -phase	_	_	_	_	_		2 Channels	(Max 1MHz)		
	input	AB phase mode	_	_	_	_	_		2 Channels	(Max 1MHz)		
High -speed	ос	Single -phase	2 Channels (MAX 200kHz)		nnels 200kHz)	_	_		2 Channels	(Max 200kHz	()	
input	input	AB phase mode	2 Channels (MAX 100kHz)		nnels 100kHz)	_	_		2 Channels (Max 100kHz)			
	Differen -tial	Single -phase	2 Channels (MAX 200kHz)	_	_	4 Channels (MAX 1MHz)	_	_	_	_	_	
	signal input	AB phase mode	2 Channels (MAX 100kHz)	_	_	4 Channels (MAX 1MHz)	_	_	_	_	_	
Expansion capability	Local ex	tension	Right expa Left expan	nnsion*16 sion*1	Right expansion*16 Left expansion*1 BD board*1	Right expansion*16	_			_		
	Remote	extension				Suppor	t ECAT remote	expansion				
Interruption	External	interrupt	10	10	10	6	_		16			
Communication Communi port -cation		2 *RJ45 ports 1 *CAN 1* RS232 1 *485	2 *RJ45 ports 1 *RS232 1 *485	s 2 *RJ45 ports 1 *RS232 1 *485	2 *RJ45 ports 1 *RS232 2 *485	4 *RJ45 ports (2 EtherCAT, 2 Ethernet) 2 *USB 2.0 2 *USB 3.0 1 *RS232 1 *RS485	2* Ethornot)	4 * USB 3.0 2* RS232/F BIOS contr	RS485 (isolat			
	Commu Protoco		Modbus RTU, Modbus TCP, Ethernet I			IP, TCP/IP, OPC UA, Free Format and other protocols						
		EtherCAT, CANopen bus				EtherCAT						
Data powe	er-off hold-	on function					Support					
Clock							Support					
RTE Start	/Stop Key	У	-	_	_	_	Support	_	_	_	_	
	Single a	kis motion					Support					
Motion control	Axis grou	up motion					Support					
function	E-CAM		Sı			Support	[
	CNC						Support	Support				

Dimension (Unit:mm)

XSDH series

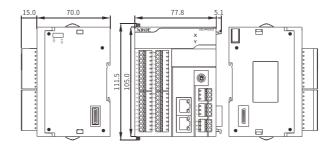


XS3 series

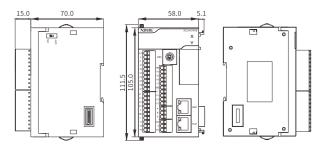


XSLH series

• XSLH-30A32

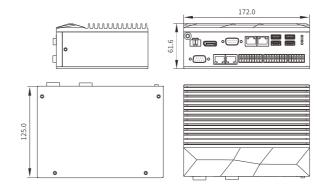


• XSLH-24A16, XSLH-24A8

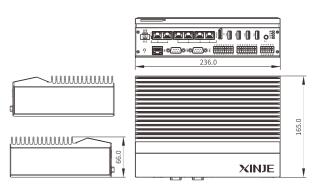


XSA series

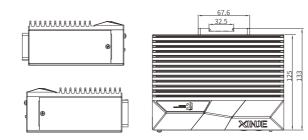
• XSA330-W/L

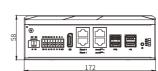


• XSA520-W/L, XSA530-W/L, XSA550-W/L



XSA230-W/L





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