

# Slim type PLC

PLC

HMI

Integrated  
controllerIndustrial  
informatizationServo  
systemFrequency  
inverterStepping  
systemVision  
system

## Small size, large function, powerful core

XL series PLC has card design, ultra-thin appearance, Equipped with powerful CPU processor, complete functions, high reliability and compact structure, Especially suitable for narrow installation space.

- ① Slim appearance, small and practical
- ② Strong compatibility
- ③ Strong expansion ability
- ④ Outstanding cost performance
- ⑤ Save more installation space



Economic

XL1 series



Standard

XL3 series



Enhanced

XL5 series



Ethernet communication

XL5E/XLME series



CAN communication

XL5N series



EtherCAT bus

XLH/XL5H/LC5E series

- 
- ① Fixed snap-fit between modules
  - ② Battery holder
  - ③ Operation LED of PLC body
  - ④ I/O indicator
  - ⑥ I/O terminal block
  - ⑤ Serial port 2: RS485
  - ⑦ Serial port 1: RS232
  - ⑧ USB port
  - ⑩ Right expansion module interface
  - ⑨ Power supply input terminal
  - ⑪ Left expansion module interface



# Economic type

## | XL1 series

The function is relatively simple, which can carry out logic control, data operation and other general functions. XL1 series is equipped with RS232 port, RS485 port, USB port and supports the networking function of X-NET fieldbus. No expansion, high-speed processing function.

- ① Program capacity 256KB
- ② I/O sequential control
- ③ Max I/O 16 points
- ④ Basic instruction 0.02~0.05us
- ⑤ RS232, RS485
- ⑥ X-NET fieldbus
- ⑦ USB port high speed download (max 12Mbps)



## | Performance specification

Product series XL1-		16T	16T-U
Main body I/O	Total points	16	16
	Input points	8	8
	Output points	8	8
Max I/O points		16	16
High speed positioning	General pulse output	-	-
	Differential pulse output	-	-
High speed input	Single/AB phase mode	-	-
	Input mode	-	-
Expansion ability	Right expansion module	-	-
	Left expansion module	-	-
	BD board	-	-
Interruption	External interrupt	6	6
	Timing interrupt	20	20
	Other interrupts	-	-
Communication function	Communication port	2 RS232 ports, 1 RS485 port	
	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication	
Bus function		X-NET fieldbus	
PWM pulse width modulation		-	
Frequency measurement		-	
Precise timing		-	
Multi-station control		-	
Program execution mode		Cyclic scanning mode	
Programming method		Command, ladder chart, C language	
Power off holding		FlashROM and lithium battery (3V button battery)	
Basic instruction processing speed		0.02~0.05us	
User program capacity (secret download mode)		256KB	

## | XL1 series model list

Model						
AC power supply			DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
NPN type	-	-	-	-	XL1-16T	-
	-	-	-	-	XL1-16T-U	-

Product series XL1-			16T	16T-U
Security function			6-bit ASCII password encryption, secret downloading	
Self-diagnosis function			Power on self-test, monitoring timer, syntax check	
Real-time clock			Built-in clock, Lithium battery power supply, with power down memory	
SD expansion card			-	
Bit soft component	Input relay (X)		896 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077	
	Output relay (Y)		896 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077	
	Auxiliary relay	General M	8000 points M0~M7999	
		Power off holding HM	960 points HM0~HM959	
		Special SM	2048 points SM0~SM2047	
	Flow	General S	1024 points S0~S1023	
		Power off holding HS	128 points HS0~HS127	
	Timer	Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s	
		General T	576 points T0~T575	
		Power off holding HT	96 points HT0~HT95	
	Counter	Specification	16-bit counter: K0~32767 32-bit counter: -2147483648~+2147483647	
		General C	576 points C0~C575	
		Power off holding HC	96 points HC0~HC95	
Special coil for WAIT instruction		32 points SEM0~SEM31		
Word soft component	Data register	General D	8000 points D0~D7999	
		Power off holding HD	1000 points HD0~HD999	
		Special SD	2048 points SD0~SD2047	
	FlashROM register	Power off holding FD	5120 points FD0~FD5119	
		Special SFD	2000 points SFD0~SFD1999	
		Security register FS	48 points FS0~FS47	

\*Note: ①The “-” in the table indicates that this model doesn't have this function; ②Special refers to system occupancy, cannot be used for other purposes.

# Standard type

## XL3 series

It has complete functions. In addition to the general data processing function, it also has special functions such as high-speed pulse output, high-speed counting function, pulse width modulation, frequency measurement and accurate timing. It supports the connection of right expansion module and left expansion module, which can meet various use needs.

- ① Program capacity 256KB
- ② I/O sequential control
- ③ Max I/O 352 points
- ④ Basic instruction 0.02~0.05us
- ⑤ RS232, RS485
- ⑥ X-NET fieldbus
- ⑦ USB port high speed download (max 12Mbps)
- ⑧ 3 channels high speed counter (single phase up to 80KHz, AB phase up to 50KHz)
- ⑨ 2-4 channels 100KHz pulse output



## XL3 series model list

Model						
AC power supply			DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
NPN type	-	-	-	XL3-16R	XL3-16T	-
	-	-	-	XL3-32R	XL3-32T	-
PNP type	-	-	-	XL3-16PR	-	-
	-	-	-	XL3-32PR	-	-
PNP &NPN type	-	-	-	-	XL3-16T4	-

## Performance specification

Product series XL3-		16R/T	16T4	32R/T
Main body I/O	Total points	16	16	32
	Input points	8	8	16
	Output points	8	8	16
Max I/O points		336	336	352
High speed positioning	General pulse output	2 axes	4 axes	2 axes
	Differential pulse output	-	-	-
High speed input	Single/AB phase mode	3 channels	3 channels	3 channels
	Input mode	OC	OC	OC
Expansion ability	Right expansion module	10	10	10
	Left expansion module	1	1	1
	BD board	-	-	-
Interruption	External interrupt	6	10	10
	Timing interrupt	20		
	Other interrupts	High speed counter interrupt, pulse interrupt		
Communication function	Communication port	1 RS232 port, 1 RS485 port, 1 USB port		
	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication		
Bus function		X-NET fieldbus		
PWM pulse width modulation		Support		
Frequency measurement		Support		
Precise timing		26 points ET0~ET25 (Only even numbers can be used)		
Multi-station control		-		
Program execution mode		Cyclic scanning mode		
Programming method		Command, ladder chart, C language		
Power off holding		FlashROM and lithium battery (3V button battery)		
Basic instruction processing speed		0.02~0.05us		
User program capacity (secret download mode)		256KB		

Product series XL3-		16R/T	16T4	32R/T
Security function		6-bit ASCII password encryption, secret downloading		
Self-diagnosis function		Power on self-test, monitoring timer, syntax check		
Real-time clock		Built-in clock, Lithium battery power supply, with power down memory		
SD expansion card		-		
Bit soft component	Input relay (X)		896 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077	
	Output relay (Y)		896 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077	
	Auxiliary relay	General M	8000 points M0~M7999	
		Power off holding HM	960 points HM0~HM959	
		Special SM	2048 points SM0~SM2047	
	Flow	General S	1024 points S0~S1023	
		Power off holding HS	128 points HS0~HS127	
	Timer	Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s	
		General T	576 points T0~T575	
		Power off holding HT	96 points HT0~HT95	
	Counter	Specification	16-bit counter: K0~32767 32-bit counter: -2147483648~+2147483647	
		General C	576 points C0~C575	
		Power off holding HC	96 points HC0~HC95	
	Special coil for WAIT instruction		32 points SEM0~SEM31	
Word soft component	Data register	General D	8000 points D0~D7999	
		Power off holding HD	1000 points HD0~HD999	
		Special SD	2048 points SD0~SD2047	
	FlashROM register	Power off holding FD	5120 points FD0~FD5119	
		Special SFD	2000 points SFD0~SFD1999	
		Security register FS	48 points FS0~FS47	

\*Note: ①The “-” in the table indicates that this model doesn't have this function ;②Special refers to system occupancy, cannot be used for other purposes.

# Enhanced type

## XL5 series

In addition to all the functions of standard PLC, it has faster processing speed (about 15 times of XC series), larger internal resource space, 2 ~ 4 channels high-speed pulse output, supports the connection of right expansion module and left expansion ED module, and can meet various use requirements.

- ① Program capacity 512KB
- ② I/O sequential control
- ③ Max I/O 576 points
- ④ Basic instruction 0.02~0.05us
- ⑤ RS232, RS485
- ⑥ X-NET fieldbus
- ⑦ USB port high speed download (max 12Mbps)
- ⑧ 3~4 channels high speed counter (single phase up to 80KHz, AB phase up to 50KHz)
- ⑨ 2~10 channels 100KHz pulse output



## Performance specification

Product series XL5-		16T	16T4	32T	32T4	64T10
Main body I/O	Total points	16	16	32	32	64
	Input points	8	8	16	16	32
	Output points	8	8	16	16	32
Max I/O points		528	528	544	544	576
High speed positioning	General pulse output	2 axes	4 axes	2 axes	4 axes	10 axes
	Differential pulse output	-	-	-	-	-
High speed input	Single/AB phase mode	3 channels	3 channels	3 channels	4 channels	10 channels
	Input mode	OC	OC	OC	OC	OC
Expansion ability	Right expansion module	16	16	16	16	16
	Left expansion module	1	1	1	1	1
	BD board	-	-	-	-	-
Interruption	External interrupt	6	6	10	10	10
	Timing interrupt	20				
	Other interrupts	High speed counter interrupt, pulse interrupt				
Communication function	Communication port	1 RS232 port, 1 RS485 port, 1 USB port				
	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication				
Bus function		X-NET fieldbus				
PWM pulse width modulation		Support				
Frequency measurement		Support				
Precise timing		26 points ET0~ET25 (Only even numbers can be used)				
Multi-station control		-				
Program execution mode		Cyclic scanning mode				
Programming method		Command, ladder chart, C language				
Power off holding		FlashROM and lithium battery (3V button battery)				
Basic instruction processing speed		0.02~0.05us				
User program capacity (secret download mode)		512KB				

## XL5 series model list

Model						
AC power supply			DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
NPN type	-	-	-	-	XL5-16T	-
	-	-	-	-	XL5-32T	-
	-	-	-	-	XL5-32T4	-
	-	-	-	-	XL5-64T10	-
NPN type	-	-	-	-	XL5-32PT4	-
PNP &NPN type	-	-	-	-	XL3-16T4	-

Product series XL5-		16T	16T4	32T	32T4	64T10
Security function		6-bit ASCII password encryption, secret downloading				
Self-diagnosis function		Power on self-test, monitoring timer, syntax check				
Real-time clock		Built-in clock, Lithium battery power supply, with power down memory				
SD expansion card		-				
Bit soft component	Input relay (X)		1280 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077			
	Output relay (Y)		1280 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077			
	Auxiliary relay	General M	70000 points M0~M69999			
		Power off holding HM	12000 points HM0~HM11999			
		Special SM	5000 points SM0~SM4999			
	Flow	General S	8000 points S0~S7999			
		Power off holding HS	1000 points HS0~HS999			
	Timer	Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s			
		General T	5000 points C0~C4999			
		Power off holding HT	2000 points HC0~HC1999			
	Counter	Specification	16-bit counter: K0~32767 32-bit counter: -2147483648~+2147483647			
		General C	5000 points C0~C4999			
		Power off holding HC	2000 points HT0~HT1999			
	Special coil for WAIT instruction		32 points SEM0~SEM31			
Word soft component	Data register	General D	70000 pointsD0~D69999			
		Power off holding HD	25000 points HD0~HD24999			
		Special SD	5000 points SD0~SD4999			
	FlashROM register	Power off holding FD	8192 points FD0~FD8191			
		Special SFD	6000 points SFD0~SFD5999			
		Security register FS	48 points FS0~FS47			

\*Note: ①The “-” in the table indicates that this model doesn't have this function; ②Special refers to system occupancy, cannot be used for other purposes.



# Ethernet communication type

## XL5E series

In addition to all the functions of XL5 series, it has faster processing speed (about 2 ~ 3 times that of XDM series), larger internal resource space (1M), RS232, RS485 and Ethernet ports, supports 2 ~ 10 channels pulse output, and supports the connection of right expansion module and left expansion module.

- ① Program capacity 1MB
- ② I/O sequential control
- ③ Max I/O 576 points
- ④ Basic instruction 0.01~0.03us
- ⑤ RS232, RS485, RJ45
- ⑥ X-NET fieldbus
- ⑦ 2~10 channels 100KHz pulse output
- ⑧ 3~10 channels high speed counter (single phase up to 80KHz, AB phase up to 50KHz)
- ⑨ Online downloading
- ⑩ Bipolar input



## XL5E series model list

Model						
AC power supply			DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
PNP &NPN type	-	-	-	-	XL5E-16T	-
	-	-	-	-	XL5E-32T	-
	-	-	-	-	XL5E-32T4	-
	-	-	-	-	XL5E-64T6	-
PNP type	-	-	-	-	XL5E-64T10	-
	-	-	-	-	XL5E-32PT4	-

## Performance specification

Product series XL5E-		16T	32T	32T4	64T6	64T10
Main body I/O	Total points	16	32	32	64	64
	Input points	8	16	16	32	32
	Output points	8	16	16	32	32
Max I/O points		528	544	544	576	576
High speed positioning	General pulse output	2 axes	2 axes	4 axes	6 axes	10 axes
	Differential pulse output	-	-	-	-	-
High speed input	Single/AB phase mode	3 channels	3 channels	4 channels	6 channels	10 channels
	Input mode	OC	OC	OC	OC	OC
Expansion ability	Right expansion module	16	16	16	16	16
	Left expansion module	1	1	1	1	1
	BD board	-	-	-	-	-
Interruption	External interrupt	6	10	10	10	10
	Timing interrupt	20				
	Other interrupts	High speed counter interrupt, pulse interrupt				
Communication function	Communication port	1 RS232 port, 1 RS485 port, 2 RJ45 ports				
	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication				
Bus function		X-NET fieldbus				
PWM pulse width modulation		Support				
Frequency measurement		Support				
Precise timing		26 points ET0~ET25 (Only even numbers can be used)				
Multi-station control		Support				
Program execution mode		Cyclic scanning mode				
Programming method		Command, ladder chart, C language				
Power off holding		FlashROM and lithium battery (3V button battery)				
Basic instruction processing speed		0.01~0.03us				
User program capacity (secret download mode)		1MB				

Product series XL5E-		16T	32T	32T4	64T6	64T10
Security function		6-bit ASCII password encryption, secret downloading				
Self-diagnosis function		Power on self-test, monitoring timer, syntax check				
Real-time clock		Built-in clock, Lithium battery power supply, with power down memory				
SD expansion card		-				
Bit soft component	Input relay (X)		1280 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077			
	Output relay (Y)		1280 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077			
	Auxiliary relay	General M	70000 points M0~M69999			
		Power off holding HM	12000 points HM0~HM11999			
		Special SM	5000 points SM0~SM4999			
	Flow	General S	8000 points S0~S7999			
		Power off holding HS	1000 points HS0~HS999			
	Timer	Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s			
		General T	5000 points C0~C4999			
		Power off holding HT	2000 points HC0~HC1999			
	Counter	Specification	16-bit counter: K0~32767 32-bit counter: -2147483648~+2147483647			
		General C	5000 points C0~C4999			
		Power off holding HC	2000 points HT0~HT1999			
	Special coil for WAIT instruction		32 points SEM0~SEM31			
Word soft component	Data register	General D	70000 points D0~D69999			
		Power off holding HD	25000 points HD0~HD24999			
		Special SD	5000 points SD0~SD4999			
	FlashROM register	Power off holding FD	8192 points FD0~FD8191			
		Special SFD	6000 points SFD0~SFD5999			
		Security register FS	48 points FS0~FS47			

\*Note: ①The “-” in the table indicates that this model doesn't have this function; ②Special refers to system occupancy, cannot be used for other purposes.

# CAN communication type

## XL5N series

Compatible with most functions of XL5E series, it has built-in two-channel independent CAN communication, equipped with RS232, RS485, RJ45 port, supports two-channel pulse output, three-channel high-speed counting, and supports the connection of right expansion module and left expansion module.

- ① Program capacity 1MB
- ② I/O sequential control
- ③ Max I/O 544 points
- ④ Basic instruction 0.01~0.03us
- ⑤ RS232, RS485, Rj45
- ⑥ 2 channels CAN communication, support CANopen and CAN free format communication
- ⑦ Support Ethernet communication
- ⑧ 2 channels 100KHz pulse output
- ⑨ 3 channels high speed counter (single phase up to 80KHz, AB phase up to 50KHz)
- ⑩ Online downloading



## Performance specification

Product series XL5N-		32T
Main body I/O	Total points	32
	Input points	16
	Output points	16
Max I/O points		544
High speed positioning	General pulse output	2 axes
	Differential pulse output	-
High speed input	Single/AB phase mode	3 channels
	Input mode	OC
Expansion ability	Right expansion module	16
	Left expansion module	1
	BD board	-
Interruption	External interrupt	10
	Timing interrupt	20
	Other interrupts	High speed counter interrupt, pulse interrupt
Communication function	Communication port	1 RS232 port, 1 RS485 port, 2 RJ45 ports
	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication, CAN communication
Bus function		CANbus control, X-NET fieldbus
PWM pulse width modulation		Support
Frequency measurement		Support
Precise timing		Support
Multi-station control		Support
Program execution mode		Cyclic scanning mode
Programming method		Command, ladder chart, C language
Power off holding		FlashROM
Basic instruction processing speed		0.01~0.03us
User program capacity (secret download mode)		1MB

## XL5N series model list

Model						
AC power supply			DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
NPN type	-	-	-	-	XL5N-32T	-
PNP type	-	-	-	-	XL5N-32PT	-

Product series XL5N-			32T
Security function			6-bit ASCII password encryption, secret downloading
Self-diagnosis function			Power on self-test, monitoring timer, syntax check
Real-time clock			Built-in clock, Lithium battery power supply, with power down memory
SD expansion card			-
Bit soft component	Input relay (X)		1280 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077
	Output relay (Y)		1280 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077
	Auxiliary relay	General M	200000 points M0~M199999
		Power off holding HM	20000 points HM0~HM19999
		Special SM	5000 points SM0~SM4999
	Flow	General S	2000 points S0~S19999
		Power off holding HS	2000 points HS0~HS1999
	Timer	Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s
		General T	20000 points C0~C4999
		Power off holding HT	2000 points HC0~HC1999
	Counter	Specification	16-bit counter: K0~32767 32-bit counter: -2147483648~+2147483647
		General C	20000 points C0~C19999
		Power off holding HC	2000 points HC0~HT1999
Special coil for WAIT instruction			32 points SEM0~SEM31
Word soft component	Data register	General D	500000 pointsD0~D499999
		Power off holding HD	50000 points HD0~HD49999
		Special SD	50000 points SD0~SD49999
	FlashROM register	Power off holding FD	65536 points FD0~FD65535
		Special SFD	50000 points SFD0~SFD49999
		Security register FS	48 points FS0~FS47

\*Note: ①The “-” in the table indicates that this model doesn't have this function; ②Special refers to system occupancy, cannot be used for other purposes.

# Ethernet communication type

## | XLME series

In addition to all the functions of XDM series small-sized PLC, it has faster processing speed (about 2 ~ 3 times that of XDM series), larger internal resource space (1M), supports up to 10 channels pulse output, is equipped with RS232, RS485 port and 2 RJ45 ports, and supports the connection of right expansion module and left expansion module.

- ① Program capacity 1MB
- ② I/O sequential control
- ③ Max I/O 576 points
- ④ Basic instruction 0.01~0.03us
- ⑤ RS232, RS485, Rj45
- ⑥ X-NET fieldbus
- ⑦ 4~10 channels 100KHz pulse output
- ⑧ 4~10 channels high speed counter (single phase up to 80KHz, AB phase up to 50KHz)
- ⑨ Linear/arc interpolation
- ⑩ Follow-up function
- ⑪ Online downloading



## | Performance specification

Product series XLME-		16T4	32T4	64T10
Main body I/O	Total points	16	32	64
	Input points	8	16	32
	Output points	8	16	32
Max I/O points		528	544	576
High speed positioning	General pulse output	4 axes	4 axes	10 axes
	Differential pulse output	-	-	-
High speed input	Single/AB phase mode	4 channels	4 channels	10 channels
	Input mode	OC	OC	OC
Expansion ability	Right expansion module	16	16	16
	Left expansion module	1	1	1
	BD board	-	-	-
Interruption	External interrupt	10	10	10
	Timing interrupt	20		
	Other interrupts	High speed counter interrupt, pulse interrupt		
Communication function	Communication port	1 RS232 port, 1 RS485 port, 2 RJ45 ports		
	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication		
Bus function		X-NET fieldbus		
PWM pulse width modulation		Support		
Frequency measurement		Support		
Precise timing		26 points ET0~ET25 (only even numbers can be used)		
Multi-station control		Support		
Program execution mode		Cyclic scanning mode		
Programming method		Command, ladder chart, C language		
Power off holding		FlashROM and lithium battery (3V button battery)		
Basic instruction processing speed		0.01~0.03us		
User program capacity (secret download mode)		1MB		

## | XLME series model list

Model						
AC power supply			DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
PNP &NPN type					XLME-16T4	
	-	-	-	-	XLME-32T4	-
	-	-	-	-	XLME-64T10	-

Product series XLME-		16T4	32T4	64T10
Security function		6-bit ASCII password encryption, secret downloading		
Self-diagnosis function		Power on self-test, monitoring timer, syntax check		
Real-time clock		Built-in clock, Lithium battery power supply, with power down memory		
SD expansion card		-		
Bit soft component	Input relay (X)		1280 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077	
	Output relay (Y)		1280 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077	
	Auxiliary relay	General M	70000 points M0~M69999	
		Power off holding HM	12000 points HM0~HM11999	
		Special SM	5000 points SM0~SM4999	
	Flow	General S	8000 points S0~S7999	
		Power off holding HS	1000 points HS0~HS999	
	Timer	Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s	
		General T	5000 points C0~C4999	
		Power off holding HT	2000 points HT0~HT1999	
	Counter	Specification	16-bit counter: K0~32767 32-bit counter: -2147483648~+2147483647	
		General C	5000 points C0~C4999	
		Power off holding HC	2000 points HC0~HC1999	
Word soft component	Special coil for WAIT instruction		32 points SEM0~SEM31	
	Data register	General D	70000 pointsD0~D69999	
		Power off holding HD	25000 points HD0~HD24999	
		Special SD	5000 points SD0~SD4999	
	FlashROM register	Power off holding FD	8192 points FD0~FD8191	
		Special SFD	6000 points SFD0~SFD5999	
		Security register FS	48 points FS0~FS47	

\*Note: ①The “-” in the table indicates that this model doesn't have this function; ②Special refers to system occupancy, cannot be used for other purposes.

# EtherCAT bus type

## XLH series

Compatible with most functions of XLME, it has larger program capacity and faster processing speed, supports Ethernet communication, EtherCAT bus, motion control commands such as interpolation and follow-up, can connect expansion module and left expansion ED module.

- ① Program capacity 2~4MB
- ② Max I/O 542 points
- ③ Basic instruction 0.01~0.05us
- ④ RS232, RS485, RJ45
- ⑤ Ethernet communication
- ⑥ X-NET fieldbus
- ⑦ EtherCAT bus control
- ⑧ 4 channels 100KHz pulse output
- ⑨ 4 channels high speed counter (up to 200KHz)
- ⑩ Follow-up function
- ⑪ 3 axes linear/acr interpolation
- ⑫ 16 channels electronic cam (XLH-24A16L/XLH-30A32L not supported)
- ⑬ Bipolar input



## Performance specification

Product series XLH-		24A16	24A16L	30A32	30A32L
Main body I/O	Total points	24	24	30	30
	Input points	12	12	14	14
	Output points	12	12	16	16
Max I/O points		536	536	542	542
High speed positioning	General pulse output	4 axes	4 axes	4 axes	4 axes
	Differential pulse output	-	-	-	-
High speed input	Single/AB phase mode	4 channels	4 channels	4 channels	4 channels
	Input mode	OC	OC	2 channels differential signal + 2 channels OC	2 channels differential signal + 2 channels OC
Expansion ability	Right expansion module	16	16	16	16
	Left expansion module	1	1	1	1
	BD board	-	-	-	-
Interruption	External interrupt	10	10	10	10
	Timing interrupt	20	20	20	20
	Other interrupts	High speed counter interrupt, pulse interrupt			
Communication function	Communication port	1 RS232 port, 1 RS485 port, 2 RJ45 ports			
	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication, CAN communication (only 30A32 support)			
EtherCAT bus function	Single axis	Support	Support	Support	Support
	Axis group	Support	Support	Support	Support
	Electronic cam	Support	-	Support	-
PWM pulse width modulation		Support			
Frequency measurement		-			
Precise timing		26 points ET0~ET25 (cannot support this function)			
Multi-station control		Support			
Program execution mode		Cyclic scanning mode			
Programming method		LD、ST、C、IL			
Power off holding		FlashROM			
Basic instruction processing speed		0.02~0.05us		0.01~0.03us	
User program capacity (secret download mode)		2MB		4MB	

## XLH series model list

Model						
AC power supply			DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
NPN type	-	-	-	-	XLH-24A16	-
	-	-	-	-	XLH-24A16L	-
	-	-	-	-	XLH-30A32	-
	-	-	-	-	XLH-30A32L	-
PNP type	-	-	-	-	XLH-24PA16	-
	-	-	-	-	XLH-24PA16L	-
	-	-	-	-	XLH-30PA32	-

Product series XLH-		24A16	24A16L	30A32	30A32L
Security function		6-bit ASCII password protection, secret download			
Self-diagnosis function		Power on self-test, monitoring timer, syntax check			
Real-time clock		Built-in clock, Lithium battery, power off memory			
SD expansion card		-			
Bit soft component	Input relay (X)		1280 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077		
	Output relay (Y)		1280 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077		
	Auxiliary relay	General M	200000 points M0~M199999		
		Power off holding HM	20000 points HM0~HM19999		
		Special SM	50000 points SM0~SM49999		
	Flow	General S	20000 points S0~S19999		
		Power off holding HS	2000 points HS0~HS1999		
	Timer	Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s		
		General T	20000 points T0~T19999		
		Power off holding HT	2000 points HT0~HT1999		
		Precise timing	40 points ET0~ET39		
	Counter	Specification	16-bit counter: 0~32767 32-bit counter: -2147483648~+2147483647		
		General C	20000 points C0~C19999		
		Power off holding HC	2000 points HC0~HC1999		
		High speed counter	40 points HSC0~HSC39		
	Special coil for WAIT instruction		32 points SEM0~SEM31		
Word soft component	Data register	General D	500000 points D0~D499999	500000 points D0~D499999	1000000 points D0~D999999
		Power off holding HD	50000 points HD0~HD49999	50000 points HD0~HD49999	100000 points HD0~HD99999
		Special SD	50000 points SD0~SD49999		
	FlashROM register	Power off holding FD	65536 points FD0~FD65535		
		Special SFD	50000 points SFD0~SFD49999		
		Security register FS	48 points FS0~FS47		

\*Note: ①The “-” in the table indicates that this model doesn't have this function; ②Special refers to system occupancy, cannot be used for other purposes.



# EtherCAT bus type

## XL5H series

It is compatible with most functions of XL5E, supports EtherCAT bus, is equipped with RS232, RS485 and RJ45 ports, supports 2-channel pulse output, 3-channel high-speed counting, and supports the connection of right expansion module and left expansion module.

- ① Program capacity 1M
- ② Max I/O 536 points
- ③ Basic instruction 0.01~0.05us
- ④ RS232, RS485, RJ45
- ⑤ Ethernet communication
- ⑥ X-NET fieldbus
- ⑦ EtherCAT bus control
- ⑧ 2 channels 100KHz pulse output
- ⑨ 3 channels high speed counter (single phase max 80K, AB phase max 50K)
- ⑩ Follow-up function
- ⑪ Online downloading
- ⑫ Bipolar input



## Performance specification

Product series XL5H-		24A8L	24A8L
Main body I/O	Total points	24	24
	Input points	12	12
	Output points	12	12
Max I/O points		536	536
High speed positioning	General pulse output	2 axes	2 axes
	Differential pulse output	-	-
High speed input	Single/AB phase mode	3 channels	3 channels
	Input mode	OC	OC
Expansion ability	Right expansion module	16	16
	Left expansion module	1	1
	BD board	-	-
Interruption	External interrupt	10	10
	Timing interrupt	20	
	Other interrupts	High speed counting interrupt, pulse interrupt	
Communication function	Communication port	1 RS232 port, 1 RS485 port, 1 EtherCAT port, 1 Ethernet port	
	Communication protocol	Standard Modbus ASCII/RTU, free format communication, Modbus-TCP Client/Server, TCP/UDP	
EtherCAT bus function	Single axis	Support	Support
	Axis group	Support	Support
	Electronic cam	Support	-
PWM pulse width modulation		Support	
Frequency measurement		3 channels	
Precise timing		Support	
Multi-station control		Support	
Program execution mode		Cyclic scanning mode	
Programming method		Command, ladder chart, C language	
Power off holding		FlashROM and lithium battery (3V button battery)	
Basic instruction processing speed		0.01~0.05us	
User program capacity (secret download mode)		1MB	

## XL5H series model list

Model						
AC power supply			DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
PNP &NPN type	-	-	-	-	XL5H-24A8	-
	-	-	-	-	XL5H-24A8L	-

Product series XL5H-			24A8	24A8L
Security function			6-bit ASCII password protection, secret download	
Self-diagnosis function			Power on self-test, monitoring timer, syntax check	
Real-time clock			Built-in clock, Lithium battery, power off memory	
SD expansion card			-	
Bit soft component	Input relay (X)		1280 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077	
	Output relay (Y)		1280 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077	
	Auxiliary relay	General M	70000 points M0~M69999	
		Power off holding HM	12000 points HM0~HM11999	
		Special SM	5000 points SM0~SM4999	
	Flow	General S	8000 points S0~S7999	
		Power off holding HS	1000 points HS0~HS999	
	Timer	Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s	
		General T	5000 points T0~T4999	
		Power off holding HT	2000 points HT0~HT1999	
		Precise timing	40 points ET0~ET39	
	Counter	Specification	16-bit counter: 0~32767 32-bit counter: -2147483648~+2147483647	
		General C	5000 points C0~C4999	
		Power off holding HC	2000 points HC0~HC1999	
		High speed counter	40 points HSC0~HSC39	
	Special coil for WAIT instruction		32 points SEM0~SEM31	
Word soft component	Data register	General D	70000 points D0~D69999	
		Power off holding HD	25000 points HD0~HD24999	
		Special SD	5000 points SD0~SD4999	
	FlashROM register	Power off holding FD	8192 points FD0~FD8191	
		Special SFD	6000 points SFD0~SFD5999	
		Security register FS	48 points FS0~FS47	

\*Note: ①The “-” in the table indicates that this model doesn't have this function;②Special refers to system occupancy, cannot be used for other purposes.

# Basic unit specification

## | General specification

Item	Specification
Insulation voltage	Above DC500V 2MΩ
Anti-noise	Noise voltage 1000Vp-p 1us pulse 1 minute
Air	No corrosive and combustible gas
Ambient temperature	0°C~55°C
Ambient humidity	5%RH~95%RH (no condensation)
Installation	Directly mounted on the guide rail
Grounding	The third kind of grounding (not common grounding with strong current system)

## | Power supply specification

### ■ DC power supply

Item	Specification
Rated voltage	DC24V
Allowable voltage range	DC21.6V~26.4V
Rated frequency	120mA DC24V
Allowable instantaneous power off time	10ms DC24V
Impact current	10A DC26.4V
Max power consumption	15W (16 points) / 30W (24 points and up)
Power supply for sensor	24VDC ± 10% 16 points max 200mA, 32 points max 400mA

## | Input specification

### ■ NPN mode

Item	Specification
Input signal voltage	DC24V±10%
Input signal current	7mA/DC24V
Input ON current	Above 4.5mA
Input OFF current	Below 1.5mA
Input response time	About 10ms
Input signal format	Contact input or NPN open collector transistor
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when input is ON

### ■ PNP mode

Item	Specification
Input signal voltage	DC24V±10%
Input signal current	7mA/DC24V
Input ON current	Above 4.5mA
Input OFF current	Below 1.5mA
Input response time	About 10ms
Input signal format	Contact input or PNP open collector transistor
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when input is ON

### ■ Differential mode

Item	Specification
Input signal	5V differential signal
Input max frequency	1MHz
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when input is ON

Note: XL5/XL5E/XLME series 64 points models have no "input ON current", "input OFF current", and its input ON voltage is below 9V, input OFF voltage is above 19V.

## | Output specification

### ■ Relay output

External power supply	Below AC250V, DC30V
Circuit insulation	Mechanical insulation
Action indicator	LED light
Max load	Resistive load 3A
	Inductive load 80VA
	Lamp load 100W
Min load	DC5V 10mA
Response time	OFF→ON 10ms
	ON→OFF 10ms

### ■ Transistor output

External power supply	DC5~30V
Circuit insulation	Optocoupler insulation
Action indicator	LED light
Max load	Resistive load 0.3A
	Inductive load 7.2W/DC24V
	Lamp load 1.5W/DC24V
Min load	DC5V 2mA
Open circuit leakage current	Below 0.1mA
Response time	OFF→ON Below 0.2ms
	ON→OFF Below 0.2ms

### ■ High speed pulse output

Model	T   T4   T6   T10
High speed pulse output terminal	Y0~Y1 Y0~Y3 Y0~Y5 Y0~Y11
External power supply	Below DC5~30V
Action indicator	LED light
Max current	50mA
Pulse max output frequency	100KHz

## | Serial port (RS232/RS485) communication parameter specification

Item	Parameter
Communication mode	Half duplex
Baud rate	4800bps, 9600bps, 19200bps(default), 38400bps, 57600bps, 115200bps
Data type	Data bit: 5, 6, 7, 8 (default), 9. Stop bit: 1 (default), 1.5, 2. Parity bit: none, odd, even (default)
Mode	RTU (default), ASCII, free format
Station no.	1~255 (default 1)
Delay before sending	1~100ms (default 3ms)
Reply timeout	1~1000ms (default 300ms)
Retry count	1~20 times (default 3 times)

## | General specification

Item	Specification
Using environment	No corrosive gas
Ambient temperature	0°C ~ 55°C
Storage temperature	-20 ~ 70°C
Ambient humidity	5 ~ 95%RH
Storage humidity	5 ~ 95%RH
Installation	It is directly installed on the guide rail of DIN46277 (35mm width)

# Expansion unit

## Right expansion module

### I/O expansion module

When the number of main body points cannot meet the use requirements, this type of expansion module can be used to expand the I/O points to 576 points at most.



European terminal: 16/32 points    Horn terminal: 16/32 points    External terminal strip is required

### Digital input module

Model		Function description	Specification
NPN input	PNP input		
XL-E16X	XL-E16PX	16 channels digital input	DC24V power supply Input filter time 1~50ms optional External wiring method: 16X, 32X: built-in terminal strip 32X-A, 32PX-A: external terminal block is required  The wiring method is same to PLC main body
XL-E32X	XL-E32PX	32 channels digital input	
XL-E32X-A	XL-E32PX-A	32 channels digital input, horn terminals	

### Digital output module

Model	Function description	Specification
XL-E16YR	16 channels relay output, no power supply required	The module does not require power supply R: output relay T: output transistor R response time is below 10ms T response time is below 0.2ms R max load: resistive 3A inductive 80VA T max load: each point max output current is 0.3A External wiring method: 16YR, 16YT, 32YT: built-in terminal strip 16YT-A, 32YT-A: external terminal block is required  The wiring method is same to PLC main body
XL-E16YT	16 channels transistor output, no power supply required	
XL-E16YT-A	16 channels transistor output, no power supply required, horn terminals	
XL-E32YT	32 channels transistor output, no power supply required	
XL-E32YT-A	32 channels transistor output, no power supply required, horn terminals	

### Digital I/O module

Model		Function description	Specification
NPN input	PNP input		
XL-E8X8YR	XL-E8PX8YR	8 channels digital input, 8 channels relay output	DC 24V power supply Input filter time 1~50ms optional R: output relay T: output transistor R response time is below 10ms T response time is below 0.2ms R max load: resistive 3A inductive 80VA T max load: each point max output current is 0.3A External wiring method: 8X8YR, 8X8YT, 16X16YT: built-in terminal strip 16X16YT-A, 16PX16YT-A: external terminal block is required  The wiring method is same to PLC main body
XL-E8X8YT	XL-E8PX8YT	8 channels digital input, 8 channels transistor output	
XL-E16X16YT	XL-E16PX16YT	16 channels digital input, 16 channels transistor output	
-	XL-E16PX16YT	16 channels digital input, 16 channels transistor output (PNP type)	
XL-E16X16YT-A	XL-E16PX16YT-A	16 channels digital input, 16 channels transistor output, horn terminals	

### Analog and temperature expansion module

It has D/A and A/D conversion functions. XD/XL series PLC can be applied to temperature, flow, liquid level, pressure and other process control systems by expanding analog input/output module and temperature control module.

Adding PID regulation function, it has wider and more flexible use and higher control accuracy. Only four parameters need to be set.

Each channel of the temperature control module can carry out PID control independently, which can be self-tuning, and exchange information with the main body through FROM and TO instructions.



### Temperature control module (PT&TC type)

Model	Channel	Input signal	Specification
XL-E4PT3-P	4	Pt100, PT1000 platinum thermistor (three-wire system) Measurement temperature range -100°C~500°C	Analog power supply DC24V±10%, 50mA; Resolution: 0.1°C Comprehensive accuracy: ±0.5% (relative maximum value) Conversion speed: 450ms/4 channels Filter coefficient: 0~254 Each channel is independently PID controlled and supports self-tuning function Capable of detecting power outages, disconnections, and exceeding the range
XL- E4TC-P	4	Temperature measurement range of K, S, E, N, B, T, J, and R-type thermocouples: K-type 0.0°C~1300.0°C    E-type 0.0°C~600.0°C B-type 250.0°C~1800.0°C    J-type 0.0°C~800.0°C S-type 0.0°C~1700.0°C    N-type 0.0°C~1200.0°C T-type 0.0°C~400.0°C    R-type 0.0°C~1700.0°C	Analog power supply DC24V±10%, 50mA Resolution: 0.1°C Comprehensive accuracy: ±1% (relative maximum value) Conversion speed: 420ms/4 channels Each channel is independently PID controlled and supports self-tuning function Capable of detecting power outages, disconnections, and exceeding the range
XL- E4PT3-P-H		1.PT100, PT1000, CU50, CU100 thermistor temperature measurement range: -200.0°C~850.0°C (PT100, PT1000) -50.0°C~150.0°C (CU50, CU1000)	Analog power supply DC24V±10%, 50mA; Resolution: 0.1°C, 0.01°C optional Comprehensive accuracy: 0.2% (relative maximum value) Conversion speed: 50ms/all channels; Filter coefficient: 0~254 Each channel is independently PID controlled and supports self-tuning function Capable of detecting power outages, disconnections, and exceeding the range Isolation between channels

### Analog input module (AD type)

Model	Channel	Input signal	Specification
XL-E4AD	4	Current input: 0~20mA/4~20mA/-20~20mA Voltage input: 0~5V/0~10V/-5~5V/-10~10V	Power supply for analog DC24V ±10%, 150mA Conversion speed 2ms/channel Resolution: XL-E4AD, XL-E8AD-A, XL-E8AD-V: 1/16383 (14-bit) XL-E8AD-A-S, XL-E8AD-V-S: 1/65536 (16-bit) Comprehensive accuracy ±1% AD filter coefficient 0~254 Channel enable bit is added AD channel has the functions of short circuit, open circuit and over range detection
XL-E8AD-A	8	Current input: 0~20mA/4~20mA/-20~20mA	
XL-E8AD-V	8	Voltage input: 0~5V/0~10V/-5~5V/-10~10V	
XL-E8AD-A-S	8	Current input: 0~20mA/4~20mA/-20~20mA	
XL-E8AD-V-S	8	Voltage input: 0~5V/0~10V/-5~5V/-10~10V	

### Analog output module (DA type)

Model	Channel	Output signal	Specification
XL-E4DA	4	Voltage output: 0~5V/0~10V/-5~5V/-10~10V (external load resistor 2kΩ~1MΩ) Current output: 0~20mA/4~20mA (external load resistor less than 500Ω)	Power supply for analog DC24V ±10%, 150mA Conversion speed 2ms/channel Resolution 1/4095 (12-bit) Comprehensive accuracy ±1% Channel enable bit is added

### Analog output module (DA type)

Model	Channel		Input/output signal	Specification
	Input	Output		
XL-E4AD2DA	4	2	Current input: 0~20mA/4~20mA/-20~20mA Voltage input: 0~5V/0~10V/-5~5V/-10~10V Voltage output: 0~5V/0~10V/-5~5V/-10~10V (external load resistor 2kΩ~1MΩ) Current output: 0~20mA/4~20mA (external load resistor less than 500Ω)	Power supply for analog DC24V ±10%, 150mA Conversion speed 2ms/channel Input resolution 1/16383 (14-bit) Output resolution 1/4095 (12-bit) Comprehensive accuracy ±1% AD filter coefficient 0~254 Channel enable bit is added AD channel has the functions of short circuit, open circuit and over range detection



# Expansion unit

## | Weighing extension module

It is used to convert the analog signal of the load cell into digital signal. The weighing module has the characteristics of dynamic weighing, small volume, stable performance, simple and applicable operation.

It can be widely used in seed, chemical industry, grain, feed weight control and other occasions.

- ① New algorithm, comprehensive optimization of hardware system, faster and more accurate weighing control
- ② Up to 4 analog voltage signals of load cells can be collected at the same time
- ③ High performance AD conversion, sampling speed up to 450 times/s
- ④ Display accuracy up to 1/300000
- ⑤ Automatic zero tracking function
- ⑥ The real-time data communicates with PLC at high speed through the bus, which does not affect the conversion speed



Item	Specification
Model	XL-E1WT-D,XL-E2WT-D,XL-E4WT-D
Analog input range	DC-20~20mV
AD actual resolution	1/8388607 (23Bit)
Max display resolution	1/500000
Nonlinear	0.01%F.S
Conversion speed	150 times/s, 300 times/s, 450 times/s
Power supply	DC24V±10%
Sensor excitation power supply	5VDC/120mA, four 350Ω load cells can be connected in parallel

## Left expansion ED module

XL series left expansion ED module has the type of DA, AD conversion, temperature measurement, RS232, RS485 communication. XL series basic unit can connect 1 ED module (XL1 cannot support).

### | Analog and temperature expansion ED module

Model	Input/output signal	Specification
XL-4AD-A-ED	4 channels current input: 0~20mA/4~20mA	Power supply of module: DC24V±10%, 150mA Conversion speed: 10ms (all the channels)
XL-4AD-V-ED	4 channels voltage input: 0~5V/0~10V	
XL-4DA-A-ED	4 channels current output: 0~20mA/4~20mA	
XL-4DA-V-ED	4 channels voltage output: 0~5V/0~10V	
XL-2AD2DA-A-ED	2 channels current input: 0~20mA/4~20mA 2 channels current output: 0~20mA/4~20mA	AD/DA: Current/voltage input resolution: 1/4095 (12-bit) Current/voltage output resolution: 1/1023 (10-bit) AD/DA conversion comprehensive accuracy: ±1% AD filter coefficient: 0~254
XL-2AD2DA-V-ED	2 channels voltage input: 0~5V/0~10V 2 channels voltage output: 0~5V/0~10V	
XL-2AD2PT-A-ED	2 channels current input: 0~20mA/4~20mA 2 channels temperature input: PT100 platinum thermistor	
XL-2AD2PT-V-ED	2 channels voltage input: 0~5V/0~10V 2 channels temperature input: PT100 platinum thermistor	
XL-2PT2DA-A-ED	2 channels current output: 0~20mA/4~20mA 2 channels temperature input: PT100 platinum thermistor	PT: Temperature measurement range: -100~500°C Digital output range: -1000~5000 PT filter 0~254 Temperature input resolution: 0.1°C PT channel comprehensive accuracy: ±0.8% of the full scale
XL-2PT2DA-V-ED	2 channels voltage output: 0~5V/0~10V 2 channels temperature input: PT100 platinum thermistor	

### | Communication expansion ED module

Model	Description
XL-NES-ED	For the XL series PLC left side to expand RS232 or RS485 port. Only one can be used between RS232 and RS485, serial port is COM3
XL-COBOS-ED	CANopen communication module. ① The communication speed can up to 1Mbps ② 64 communication nodes ③ Support master station and slave station mode ④ The reliability of the system is improved ⑤ Heartbeat protection ⑥ Simple wiring

# Accessories

## | Basic unit accessories list

Name	Model	Description	Product drawing
Communication/programming cable	XVP/DVP	For communication and program uploading/downloading	
USB to serial port convertor	USB-COM	For the conversion of DB9 female port and USB port	
USB print cable	JC-UA-15	Special USB download cable for Xinje products (except the products without USB-B port)Black, with double magnetic rings to improve anti-interference ability	
DB9 to RS485 cable	JC-EB-length	DB9 to RS485 cable, for the RS485 communication between HMI and PLC, There are three models for selection: JC-EB-3 (3m), JC-EB-5 (5m), JC-EB-8 (8m)	
X-NET fieldbus cable	JC-EA-length	Used together with XD-NE-BD or XD-NES-BD There are 7 models: JC-EA-1 (1m), JC-EA-05 (5m), JC-EA-10 (10m), JC-EA-20 (20m), JC-EA-30 (30m), JC-EA-50 (50m), JC-EA-100 (100m)	

## | Special power supply module

### ■ XL-P50-E

XL independent power supply ensures the normal operation of PLC in a good and reliable power supply system, which can prolong the service life of PLC.

Specification
AC85~265V
DC24V
2A
No corrosive and combustible gas
0°C~60°C
5%RH~95%RH (no condensation)
Directly mounted on the guide rail
The third kind of grounding (not common grounding with strong current system)



## | XL series terminal resistance

### ■ XL-ETR

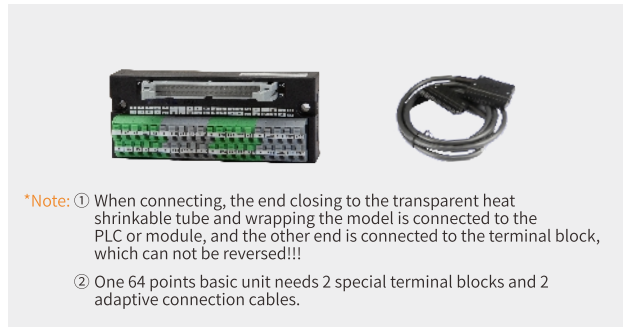
XL series terminal resistance module is required when external right expansion module is connected. Only for expansion module hardware version H3.1 and up.



## | XL series external terminal block

Some basic units and expansion modules need external terminal blocks, Xinje provide adapter terminal and connecting cable required by the following products.

Product model	Terminal block model	Adaptive connecting cable
XL5-64T10	JT-E32X+JT-E32YT	JC-TE32-NN05 (0.5m) JC-TE32-NN10 (1.0m) JC-TE32-NN15 (1.5m)
XL5E-64T6	JT-E32X+JT-E32YT	
XL5E-64T10	JT-E32X+JT-E32YT	
XLME-64T10	JT-E32X+JT-E32YT	
XL-E32X-A	JT-E32X	
XL-E32PX-A	JT-E32X	
XL-E16X16YT-A	JT-E16X16YT	
XL-E16PX16YT-A	JT-E16X16YT	
XL-E32YT-A	JT-E32YT	
XL-E16YT-A	JT-E16YT-A	



\*Note: ① When connecting, the end closing to the transparent heat shrinkable tube and wrapping the model is connected to the PLC or module, and the other end is connected to the terminal block, which can not be reversed!!!  
② One 64 points basic unit needs 2 special terminal blocks and 2 adaptive connection cables.

## | Program downloader

### ■ JD-P03

- ① Without computer, it can be used for program and data transfer and download between multiple Xinje PLCs. It must be used together with JC-ED-25 and USB-COM (hardware version H2).
- ② Suitable PLC: uploading requires the XD/XL/XG2 series PLC or ZG/ZP series integrated controller firmware version v3.4.6 or v3.5.3 (Ethernet models) and up. Downloading requires the PLC firmware v3.4 and up.
- ③ JD-P03 has small size and footprint.

\*Note: please refer to the manual for details. XDH, XC series PLC are not supported temporarily.

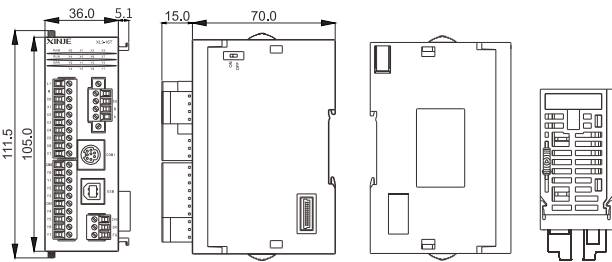




# Dimension drawing

(Unit: mm)

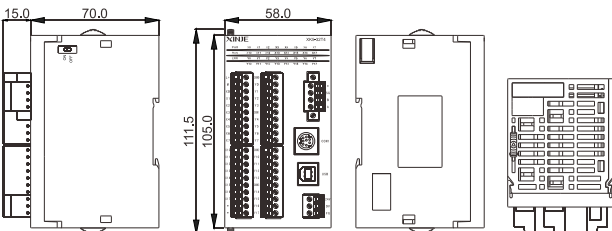
## | XL series PLC basic unit



Suitable models

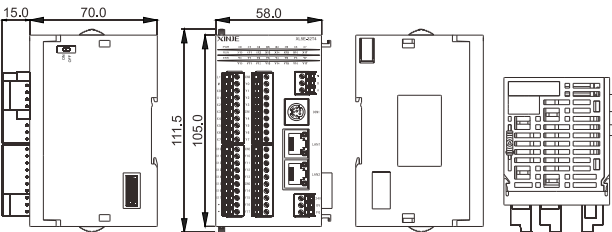
Series	XL1	XL3	XL5	XL5E
Points	16 points			

Note: the location of USB port for XL1-16T is RS232C port.  
XL5E-16 is double Ethernet ports.



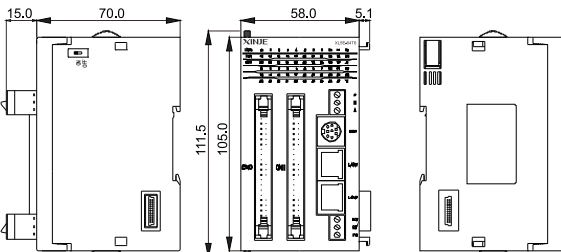
Suitable models

Series	XL3	XL5
Points	32 points	



Suitable models

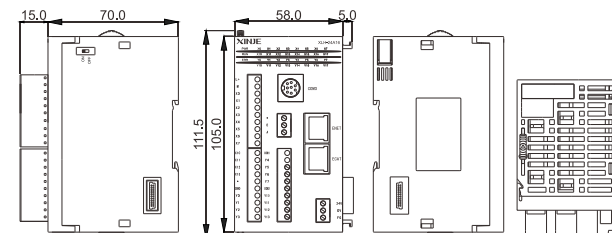
Series	XL5E	XL5N	XLME
Points	32 points		



Suitable models

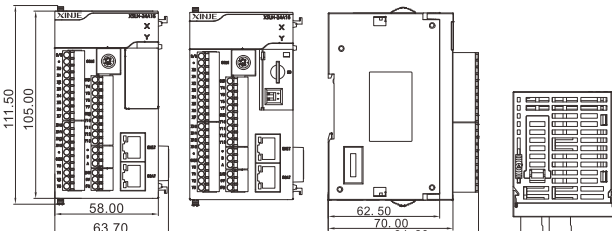
Series	XL5	XL5E	XLME
Points	64 points		

\*Note: XL5-64 doesn't have two Ethernet ports.



Suitable models

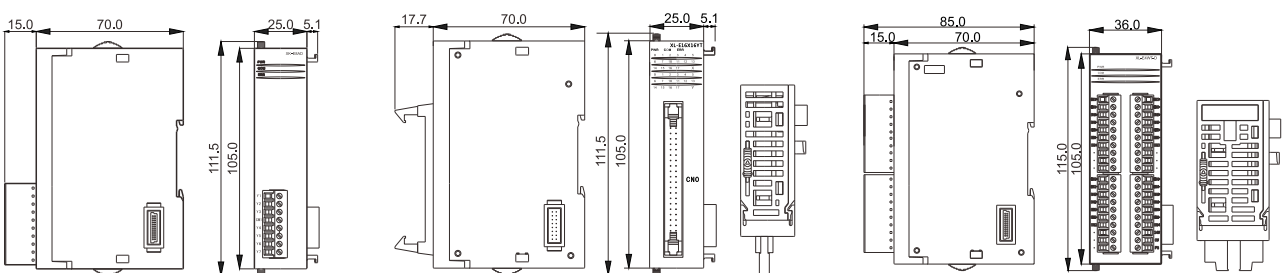
Series	XLH	XL5H
Points	24 points	



Suitable models

Series	XSLH
Points	24 points

## | XL series right expansion module



Suitable models

Module type	Digital value	Analog value
Models	8X/8Y	All
	16X	
	16Y	

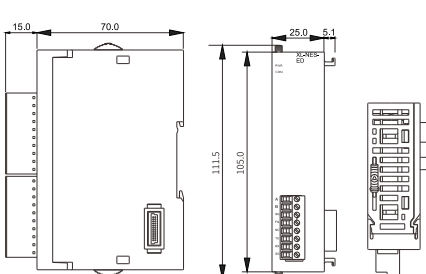
Suitable models

Module type	Digital value
Models	16YT-A
	16X16Y-A
	32X-A
	32YT-A

Suitable models

Module type	Digital value	Analog value
Models	16X16Y	4WT-D
	32X	
	32Y	

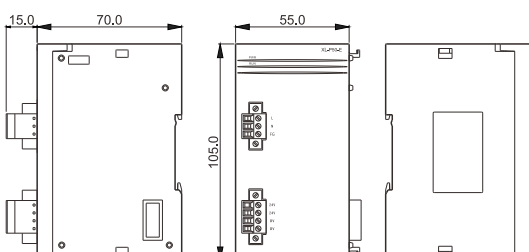
## | XL series left expansion ED module



Suitable models

Module type	Analog value	Communication
Models	All	XL-NES-ED

## | XL series power supply module



## | JT series external terminal block

