Small-sized PLC XD series small-sized PLC fast speed, stable performance and powerful function

9 sub-series to meet various needs



Wide range of applications and can meet the diversified needs of users

Network control

Ethernet series PLC is equipped with 2 Ethernet communication ports as standard to easily build an intelligent network system.

High speed pulse output

With 2~10 axes positioning control function

Up to 100KHz pulse output.

Pulse instruction is simple and powerful.

Multiple communication ports

Can realize rich communication functions

XD series PLC has 5 communication ports at most. Support RS232, RS485, bus communication (EtherCAT&CAN), Ethernet (only for Ethernet type PLC), can connect VFD, meter and other peripheral devices, communication network can be set up freely.

High speed operation Fast data processing

Non-Ethernet type PLC

The basic instruction processing speed 0.02~0.05us, scanning time 10000 steps 0.5ms, program capacity 256kB~512kB, and processing speed are about 12-15 times that of XC series.

Ethernet type PLC

The basic instruction processing speed 0.01~0.03us, scanning time 10000 steps 0.2ms, program capacity 1MB~4MB, and processing speed are about 2-3 times that of XDM series.

Bus control High speed communication, cost saving

The bus network can be easily constructed through standard EtherCAT bus and CAN bus, and multi-device control can be realized with minimal wiring.

XDH series PLC has EtherCAT motion control master station function.

High speed signal acquisition

With 3~10 channels high speed counter

By selecting different counters, it can count in singlephase incremental mode (the max frequency can reach 80kHz), AB phase mode (double frequency and quadruple frequency are optional, and the max frequency can reach 50KHz) and differential mode (the max frequency can reach 200kHz).

High speed control is realized by simple high-speed counting instruction.

Strong expansion capability

XD series PLC basic units can be equipped with rich I/O expansion module, analog input and output module, temperature control module, BD board and left expansion module, which can easily realize analog control for various purposes.

The data exchange between the expansion module and the ontology has changed from the original parallel port communication mode of XC series to the SPI serial port communication mode of XD series, so the data exchange speed is faster than that of the original XC series (2ms/AD).

Economic type

| XD1 series

The function is relatively simple. It can carry out logic control, data operation and other general functions. It does not support right expansion module, left expansion ED module and expansion BD

- Program capacity 256KB
 I/O sequential control
 Max I/O 32 points

- Basic instruction 0.02~0.05us
 RS232, RS485
- ⑥ X-NET fieldbus



| Performance specification

Product series XI	01-	10R/T	16R/T	24R/T	32R/T					
	Total points	10	16	24	32					
1/0	Input points	5	8	12	16					
	Output points	5	8	12	16					
Max I/O points		10	16	24	32					
High speed	General pulse output	20	*	2						
positioning	Differential pulse output	9:	8	8						
High speed	Single/AB phase mode	#	*							
input	Input mode	£	8	8						
	Right expansion module	*	*	8.	(2)					
	Left expansion module	8:	8	0	18					
ability	Total points 10	1/2								
	External interrupt	3	6	10 10						
Interruption	Timing interrupt	20	20	20	20					
	Other interrupts	93	Œ	솯	*					
Communication	Communication port	2 RS232 ports	2 RS232 ports	2 RS232 ports 1 RS485 port	2 RS232 ports 1 RS485 por					
function	Communication protocol	Standard Mo	odbus ASCII/RTU co	ommunication, free format comm	nunication					
Bus function		X-NET fieldb	us							
PWM pulse width	modulation	ETA:								
Frequency measi	urement									
Precise timing		26 points ET	0~ET26 (Only even	numbers can be used)						
Multi-station con	trol	123								
Program execution	on mode	Cyclic scann	ing mode							
Programming me	ethod	Instruction,	ladder diagram, C l	anguage						
Power off holding	5	Use FlashRC	M and lithium batt	ery (3V button battery)						
Basic instruction	processing speed	0.02~0.05us								
User program cap	acity (secret download mode)	e) 256KB								

| XD1 series model list

			Mod	del		
		AC power supp	ly		DC powers	supply
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
	XD1-10R-E XD1-10T-E	*	XD1-10R-C	XD1-10T-C	2	
NPN type	XD1-16R-E	XD1-16T-E	5	XD1-16R-C	*	
W W type	XD1-24R-E	XD1-24T-E		XD1-24R-C	+	
	XD1-32R-E	XD1-32T-E	ž	XD1-32R-C	XD1-32T-C	8
PNP type			=		*	×

Product se	eries XD1-		10R/T	16R/T	24R/T	32R/T				
Security fu	unction		6-bit ASCII password	encryption, secret do	wnloading					
Self-diagno	osis function		Power on self-test, m	onitoring timer, synta	x check					
Real-time	clock		Built-in clock, Lithiur	n battery power supp	ly, with power down n	nemory				
SD expans	ion card	1	3							
	Input relay (X)		896 points: X0~X77, X	(10000~X11177, X2000	00~X20177, X30000~X3	30077				
	Output relay (Y)	The state of the s	896 points: Y0~Y77, Y	10000~Y11177, Y2000	0~Y20177, Y30000~Y30	0077				
		General M	8000 points M0~M79	99						
	Auxiliary relay	Power off holding HM	960 points HM0~HM959							
	Special SM General S Power off holding HS	Special SM	2048 points SM0~SM2047							
		1024 points S0~S102	3							
	TIOW	Power off holding HS								
Bit soft component		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							
		Specification	16-bit counter: 0~32 32-bit counter: -2147	767 7483648~+2147483647	,					
	Counter	General C	576 points C0~C575							
		Power off holding HC	96 points HC0~HC95							
	Special coil for WAI	T instruction	32 points SEM0~SEM	31						
		General D	8000 points D0~D799	99						
Word soft	Data register	Power off holding HD	1000 points HD0~HD	999						
component		Special SD	2048 points SD0~SD	2047						
22.mponent		Power off holding FD	5120 points FD0~FD	5119						
	FlashROM register	Special SFD	2000 points SFD0~SI	D1999						
		Security register FS	48 points FS0~FS47							

^{*}Note: ①Only the PLC with transistor output has high speed positioning function;②The "-" in the table indicates that this model doesn't have this function; 3 Special refers to system occupancy, cannot be used for other purposes,

Basic type

XD2 series

The functions are complete. In addition to the basic data processing function, it also has special functions such as pulse output, highspeed counting, pulse width modulation, frequency measurement and so on. It supports left expansion ED and BD (16 points are not supported), and does not support right expansion module, which can meet the basic use needs of users.

- Program capacity 256KB
 I/O sequential control
 Max I/O 60 points

- Basic instruction 0.02~0.05us
 RS232, RS485
- ⑥ X-NET fieldbus
- ② 2 channels 100KHz pulse output
- ® 3 channels high speed counting (single phase max 80KHz, AB phase max 50KHz)



| Performance specification

Product series XI)2-	16R/T/RT	24R/T/RT	32R/T/RT	42R/T/RT	48R/T/RT	60R/T/RT
	Total points	16	24	32	42	48	60
1/0	Input points	8	14	18	24	28	36
	Output points	8	10	14	18	20	24
Max I/O points		16	24	32	42	48	60
High speed	General pulse output	2 axes	2 axes	2 axes	2 axes	2 axes	2 axes
Max I/O points High speed positioning High speed input Expansion ability Interruption Communication function Bus function PWM pulse width Frequency measu Precise timing Multi-station cont Program executio Programming me Power off holding Basic instruction	Differential pulse output	is.	22	(4)	la "	2	20
I/O Total points Input points Output points Output points Max I/O points High speed positioning High speed input Expansion ability Interruption Interruption Communication function Bus function PWM pulse width modulation Frequency measurement Precise timing Multi-station control Program execution mode Power off holding Basic instruction prints Input mode Right expansion mode Right expansion mode External interrupt Timing interrupt Other interrupts Communication production production Communication production Frequency measurement Precise timing Multi-station control Program execution mode Programming method Power off holding Basic instruction processing speed	Single/AB phase mode	3 channels	3 channels	3 channels	3 channels	3 channels	3 channels
Total points Input points Output points Output points Max I/O points High speed Program ming method Program in gruch in struction Total points Input points Output points General pulse output Differential pulse output Input mode Right expansion module BD board External interrupt Timing interrupt Communication port Communication port Communication protocol Bus function PWM pulse width modulation Frequency measurement Program execution mode Programming method Power off holding Basic instruction processing speed	Input mode	OC	ОС	ОС	ОС	ОС	ОС
Input points 8	3						
Total points	1	1					
ability	BD board	20	1	1	1	2	2
	External interrupt	6	6 10 10 10 10		10	10	
Interruption	Timing interrupt	20					
	Other interrupts	High speed	countinginterru	pt, pulse interru	pt		
Communication	Communication port	2 RS232 poi	rts, 1 RS485 port				
function	Communication protocol	Standard M	odbus ASCII/RTI	J communication	n, free format co	mmunication	
Bus function		X-NET fieldl	bus				
PWM pulse width	modulation	Support					
Frequency measu	urement	Support					
Precise timing		26 points E	T0~ET25 (only ev	en numbers can	be used)		
Multi-station con	trol	(4)					
Program execution	on mode	Cyclic scanı	ning mode				
Programming me	ethod	Instruction,	ladder diagram,	Clanguage			
Power off holding	5	Use FlashR0	DM and lithium b	attery (3V buttor	n battery)		
Basic instruction	processing speed	0.02~0.05us	S				
User program cap	acity (secret download mode)	256KB					

| XD2 series model list

			Mo	odel		
		AC power supp	ly		DC powers	supply
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
	XD2-16R-E	XD2-16T-E	XD2-16RT-E	XD2-16R-C	XD2-16T-C	5
	XD2-24R-E	XD2-24T-E XD2-24RT-E		XD2-24R-C	XD2-24T-C	XD2-24RT-C
NDNA	XD2-32R-E	XD2-32T-E	XD2-32RT-E	XD2-32R-C	XD2-32T-C	XD2-32RT-C
NPN type	XD2-42R-E	XD2-42T-E	XD2-42RT-E	*	-	*
	XD2-48R-E	XD2-48T-E	XD2-48RT-E	XD2-48R-C	XD2-48T-C	XD2-48RT-C
	XD2-60R-E	XD2-60T-E	XD2-60RT-E	XD2-60R-C	XD2-60T-C	XD2-60RT-C
PNP type	÷	34	3#9	XD2-32PR-C	€:	€

		-									
Product se	eries XD2-		16R/T/RT	24R/T/RT	32R/T/RT	42R/T/RT	48R/T/RT	60R/T/RT			
Security fo			6-bit ASCII բ	password encry	ption, secret d	ownloading					
Self-diagn	osis function		Power on se	elf-test, monito	ring timer, synt	ax check					
Real-time	clock		Built-in cloc	k, Lithium batt	ery power supp	oly, with power	down memory				
SD expans	sion card		9								
	Input relay (X)		896 points:	X0~X77, X10000	0~X11177, X200	00~X20177, X3	0000~X30077				
	Output relay (Y)		896 points:	Y0~Y77, Y10000	~Y11177, Y200	00~Y20177, Y30	0000~Y30077				
		General M	8000 points	M0~M7999							
	Auxiliary relay	Power off holding HM	960 points HM0~HM959								
		Special SM	2048 points SM0~SM2047								
	Flow	General S	1024 points S0~S1023								
	TIOW	Power off holding HS	128 points HS0~HS127								
Bit soft component	T	Specification		r: 0.1~3276.7s, 0.001~32.767s	10ms timer: 0.0	01~327.67s,					
	Timer	General T	576 points	Γ0~T575							
		Power off holding HT	96 points H	T0~HT95							
	Country	Specification		ter: 0~32767 ter: -214748364	18~+214748364	7					
	Counter	General C	576 points (C0~C575							
		Power off holding HC	96 points H	C0~HC95							
	Special coil for WAI	T instruction	32 points SI	EM0~SEM31							
		General D	8000 points	D0~D7999							
	Data register	Power off holding HD	1000 points	HD0~HD999							
Word soft component		Special SD	2048 points	SD0~SD2047							
component		Power off holding FD	5120 points	FD0~FD5119							
	FlashROM register	Special SFD	2000 points	SFD0~SFD199	9						
		Security register FS	48 points FS	S0~FS47							

^{*}Note: ①Only the PLC with transistor output has high speed positioning function; ②The "-" in the table indicates that this model doesn't have this function; 3 Special refers to system occupancy, cannot be used for other purposes,

Standard type

| XD3 series

The functions are complete. In addition to the basic data processing function, it also has special functions such as pulse output, high-speed counting, pulse width modulation, frequency measurement and so on. It supports left expansion ED, expansion BD (16 points are not supported) and right expansion module, which can meet the basic use needs of users.

- Program capacity 256KB
 I/O sequential control
- 3 Max I/O 380 points
- ④ Basic instruction 0.02~0.05us
- ⑤ RS232, RS485
- ⑥ X-NET fieldbus
- ? 2~4 channels 100KHz pulse output (Y2, Y3 max pulse output frequency of XD3-24T4/32T4 are 20KHz)
 8 3 channels high speed counting (single phase max 80KHz, AB phase max 50KHz)
- 9 USB port high speed download (max 12Mbps)①



| Performance specification

Product series XD)3-	16R/T/RT	24R/T/RT	24T4	32R/T/RT	32T4	42R/T/RT	48R/T/RT	60R/T/RT
	Total points	16	24	24	32	32	42	48	60
I/O	Input points	8	14	14	18	18	24	28	36
	Output points	8	10	10	14	14	18	20	24
Max I/O points		336	344	344	352	352	362	368	380
High speed	General pulse output	2 axes	2 axes	4 axes	2 axes	4 axes	2 axes	2 axes	2 axes
positioning	Differential pulse output	22	(2)	¥;	36	940	~	7	~
High speed	Single/AB phase mode	3channels	3channels	3channels	3channels	3channels	3channels	3channels	3channels
input	Input mode	OC	OC	OC	OC	OC	OC	OC	OC
F	Right expansion module	10	10	10	10	10	10	10	10
ability	Left expansion module	1	1	1	1	1	1	1	1
ubility	BD board	15	1	1	1	1	1	2	2
	External interrupt	6	10	10	10	10	10	10	10
Interruption	Timing interrupt	20							
	Other interrupts	High sp	eed countin	ginterrupt,	pulse interru	pt			
Communication	Communication port	1 RS23	2 ports, 1 RS	485 port, 1 U	ISB port				
function	Communication protocol	Standa	ırd Modbus A	ASCII/RTU co	mmunicatio	n, free forma	t communic	ation	
Bus function		X-NET	fieldbus						
PWM pulse width	modulation	Suppo	rt						
Frequency measu	urement	Suppo	rt						
Precise timing		26 poir	nts ET0~ET25	only even	numbers can	be used)			
Multi-station con	Input points								
Program execution	on mode	Cyclic s	canning mo	de					
Programming me	ethod	Instruc	tion, ladder	diagram, C la	anguage				
Power off holding	3	Use Fla	shROM and	lithium batte	ery (3V butto	n battery)			
Basic instruction	processing speed	0.02~0.	05us						
User program cap	acity (secret download mode)	256KB						·	

| XD3 series model list

			Mo	odel		
		AC power supp	ly		DC powers	supply
	XD3-16R-E XD3-16T-E XD3-16 XD3-24R-E XD3-24T-E XD3-24 - XD3-24T4-E - ≥ XD3-32T-E XD3-32 - XD3-32T4-E - XD3-42R-E XD3-42T-E XD3-42 XD3-48R-E XD3-48T-E XD3-48	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output	
	XD3-16R-E	XD3-16T-E	XD3-16RT-E	XD3-16R-C	XD3-16T-C	XD3-16RT-C
	XD3-24R-E	XD3-24T-E	XD3-24RT-E	XD3-24R-C	XD3-24T-C	XD3-24RT-C
	-	XD3-24T4-E		3.	XD3-24T4-C	£
NPN type	XD3-32R-E	XD3-32T-E	XD3-32RT-E	XD3-32R-C	XD3-32T-C	XD3-32RT-C
	-	XD3-32T4-E	4	· ·	*	£
	XD3-42R-E	XD3-42T-E	XD3-42RT-E	3	2	¥
	XD3-48R-E	XD3-48T-E	XD3-48RT-E	XD3-48R-C	XD3-48T-C	XD3-48RT-C
	XD3-60R-E	XD3-60T-E	XD3-60RT-E	XD3-60R-C	XD3-60T-C	XD3-60RT-C
	XD3-16PR-E	XD3-16PT-E	22	XD3-16PR-C	XD3-16PT-C	XD3-16PRT-C
	XD3-24PR-E	XD3-24PT-E	XD3-24PRT-E	XD3-24PR-C	XD3-24PT-C	XD3-24PRT-C
PNP type	XD3-16PR-E XD3-16PT-E XD3-24PR-E XD3-24PT-E XD3-2	XD3-32PRT-E	XD3-32PR-C	XD3-32PT-C	XD3-32PRT-C	
	XD3-48PR-E	XD3-48PT-E	XD3-48PRT-E	XD3-48PR-C	XD3-48PT-C	XD3-48PRT-C
	XD3-60PR-E	XD3-60PT-E	XD3-60PRT-E	XD3-60PR-C	XD3-60PT-C	XD3-60PRT-C

Product s			16R/T/RT 24R/T/RT 24T4 32R/T/RT 32T4 42R/T/RT 48R/T/RT 60R/T/RT									
Security f	unction		6-bit ASCII password encryption, secret downloading									
	osis function		Power on self-test, monitoring timer, syntax check									
Real-time	clock		Power on self-test, monitoring timer, syntax check Built-in clock, Lithium battery power supply, with power down memory 896 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077 896 points: Y0~Y77, Y10000~Y11177, Y20000~Y20177, Y30000~Y30077 8000 points M0~M7999 960 points HM0~HM959 2048 points SM0~SM2047 1024 points S0~S1023 128 points HS0~HS127 100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s 576 points T0~T575 96 points HT0~HT95 16-bit counter: 0~32767 32-bit counter: -2147483648~+2147483647									
SD expans	sion card		3									
	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									
		General M	8000 points M0~M7999									
	Auxiliary relay	Power off holding HM	960 points HM0~HM959									
		Special SM	2048 points SM0~SM2047									
	Output relay (Y) Auxiliary relay Flow Special SM General S Power off holding H Specification Timer General T Power off holding H Specification General C Power off holding H Specification	General S	1024 points S0~S1023									
		Power off holding HS	128 points HS0~HS127									
Bit soft component		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									
	Country	Specification	16-bit counter: 0~32767 32-bit counter: -2147483648~+2147483647									
	clock ion card Input relay (X) Output relay (Y) Auxiliary relay Flow Flow Flow Flow Flow Flow Flow Flow	576 points C0~C575										
		Power off holding HC	96 points HC0~HC95									
	Special coil for WAI	T instruction	32 points SEM0~SEM31									
		General D	8000 points D0~D7999									
	Counter General C Power off holding HC Special coil for WAIT instruction General D		1000 points HD0~HD999									
Word soft component	t Special SD	Special SD	2048 points SD0~SD2047									
Component		Power off holding FD	5120 points FD0~FD5119									
	FlashROM register	Special SFD	2000 points SFD0~SFD1999									
		Security register FS	48 points FS0~FS47									

^{*}Note: ①Only the PLC with transistor output has high speed positioning function; ②The "-" in the table indicates that this model doesn't have this function; 3 Special refers to system occupancy, cannot be used for other purposes,

Enhanced type

XD5 series

In addition to all the functions of standard PLC, it has faster processing speed (about 15 times that of XC series), larger internal resource space and 2 ~ 10 channels of high-speed pulse output. It supports the connection of right expansion module, expansion BD board (not supported by 16 points) and left expansion ED module, and supports SD card expansion (except 16 points), which can meet various requirements.

- ① Program capacity 512KB
- ② I/O sequential control
- 3 Max I/O 592 points
- 4 Basic instruction 0.02~0.05us
- ⑤ RS232, RS485
- ⑥ X-NET fieldbus
- ⑦ 2~10 channels 100KHz pulse output
- ® 3~10 channels high speed counting (single phase max 80KHz, AB phase max 50KHz)
- USB port high speed download (max 12Mbps)



| Performance specification

Product series XD5-		16	24	24T4	32	32T4	42	48	48T4	48T6	60	60T4	60T6	60T10	80
	Total points	16	24	24	32	32	42	48	48	48	60	60	60	60	80
Main body I/O	Input points	8	14	14	18	18	24	28	28	28	36	36	36	36	40
	Output points	8	10	10	14	14	18	20	20	20	24	24	24	24	40
Max I/O points		528	536	536	544	544	554	560	560	560	572	572	572	572	592
High speed	General pulse output	2 axes	2 axes	4 axes	2 axes	4 axes	2 axes	2 axes	4 axes	6 axes	2 axes	4 axes	6 axes	10 axes	2 axes
positioning	Differential pulse output		8	=	590	8	(6)	==	(3)	388	8	24	8	-	90
High speed	Single/AB phase mode	3channels	3channels	4channels	3channels	4channels	3channels	3channels	4channels	6channels	3channels	4channels	6channels	10channels	3channels
input	Input mode	OC	OC	OC	OC	ОС	OC	OC	OC	ОС	ОС	ОС	OC	ОС	OC
	Right expansion module	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Expansion ability	Left expansion module	1 ,	1	1 1	1	_ 1	1	1	1	1	. 1	1	1	1	1
<i>a</i> 2,	BD board		1	1	1	1	1	2	2	2	2	2	2	2	2
	External interrupt	6	10	10	10	10	10	10	10	10	10	10	10	10	10
Interruption	Timing interrupt	20													
	Other interrupts	High	speed co	untingir	nterrupt,	pulse inte	errupt								
Communication	Communication port	1 RS2	32 ports	, 1 RS485	port, 1 U	SB port									
function	Communication protocol	Stan	dard Mod	lbus ASC	II/RTU co	mmunica	ition, free	e format o	communi	cation					
Bus function		X-NE	T fieldbu	S											
PWM pulse width m	odulation	Supp	ort												
Frequency measure	ement	Supp	ort												
Precise timing		26 pc	oints ETO	~ET25 (o	nly even i	numbers	can be us	sed)							
Multi-station contro	ol	Supp	ort												
Program execution	mode	Cycli	cscannin	g mode											
Programming meth	od	Instru	uction, la	dder diag	gram, C la	inguage									
Power off holding		Use F	lashROM	and lith	ium batte	ery (3V bu	tton batt	ery)							
Basic instruction pr	ocessing speed	0.02~	0.05us												
User program capaci	ty (secret download mode)	512K	В												

XD5 series model list

			Mod	el				
		AC power supp	ly		DC powers	supply		
PNP type	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output		
	XD5-16R-E	XD5-16T-E	XD5-16RT-E	XD5-16R-C	XD5-16T-C	XD5-16RT-C		
	XD5-24R-E	XD5-24T-E	XD5-24RT-E	XD5-24R-C	XD5-24T-C	XD5-24RT-C		
	-	XD5-24T4-E	-	2	XD5-24T4-C	Di Di		
	XD5-32R-E	XD5-32T-E	XD5-32RT-E	XD5-32R-C	XD5-32T-C	XD5-32RT-C		
	22	XD5-32T4-E	22	2	XD5-32T4-C	25		
	XD5-42R-E	XD5-42T-E	-	2	÷	H		
IDNI to un a	XD5-48R-E	XD5-48T-E	XD5-48RT-E	XD5-48R-C	XD5-48T-C	XD5-48RT-C		
NPN type	.5.2	XD5-48T4-E	5.	*	XD5-48T4-C	2		
	=	XD5-48T6-E	Ε.	5.	XD5-48T6-C	5		
	XD5-60R-E	XD5-60T-E	XD5-60RT-E	XD5-60R-C	XD5-60T-C	XD5-60RT-C		
	9	XD5-60T4-E	8	<u></u>	XD5-60T4-C	륁		
	201. 120	XD5-60T6-E	2	Ę.	XD5-60T6-C	9.3 #1		
	2	XD5-60T10-E	4	2	XD5-60T10-C	\$1		
	XD5-80R-E	XD5-80T-E	÷	*	¥	20		
	XD5-24PR-E	XD5-24PT-E	XD5-24PRT-E	XD5-24PR-C	XD5-24PT-C	XD5-24PRT-C		
	#	XD5-24PT4-E	*	je.	¥	×		
	XD5-32PR-E	XD5-32PT-E	XD5-32PRT-E	3.	XD5-32PT-C	XD5-32PRT-C		
OND + -	<u></u>				XD5-32PT4-C	=======================================		
'NP type -		.5	XD5-48PRT-E	.5	5	73		
	2	XD5-48PT6-E	T	5.	XD5-48PT6-C	20		
	XD5-60PR-E	3	Ë	Ē	XD5-60PT-C			
	2	<u> </u>	2	\$	XD5-60PT6-C	2		

Product serie	s XD5-		16	24	24T4	32	32T4	42	48	48T4	48T6	60	60T4	60T6	60T10	80
Security func	tion		6-bit	ASCII p	oasswor	d end	ryption	, secre	t dow	nloadir	ng					
Self-diagnosi	s function		Powe	er on se	elf-test,	monit	oring ti	mer, s	yntax o	check						
Real-time clo	ck		Built-in clock, Lithium battery power supply, with power down memory													
SD expansion	card		Supp	ort (16	points	cann	ot suppo	ort)								
	Input relay (X)		1280	points	: X0~X7	7, X10	000~X1	1177,)	(20000	~X201	77, X300	00~X	30077			
	Output relay (Y)	1280	points	:Y0~Y7	7, Y10	000~Y11	.177, Y	20000	~Y2017	7, Y300	00~Y3	30077			
		General M	7000	0 point	ts M0~M	69999)									
	Auxiliary relay	Power off holding HM	1200	0 point	s HM0~	HM1	L999									
		Special SM	5000	points	SM0~S	M499	9									
	Flow	General S	8000	points	S0~S79	99										
Bit soft	Flow	Power off holding HS	1000	points	HS0~H	S999										
component		Specification			r: 0.1~3 0.001~3		s, 10ms s	timer:	0.01~	327.67	5,					
	Timer	General T	5000	points	T0~T49	99										
		Power off holding HT	2000	points	HT0~H	T1999)									
		Specification			ter: 0~3 ter: -214		648~+21	147483	8647							
	Counter	General C	5000	points	C0~C49	999										
		Power off holding HC	2000	points	HC0~H	C1999)									
	Special coil for	WAIT instruction	32 pc	oints SI	EM0~SE	M31										
		General D	7000	0 point	ts D0~D	59999										
		Power off holding HD	2500	0 point	ts HD0~	HD24	999									
Word soft		Special SD	5000	points	SD0~SI	04999)									
component	Flk-DOM	Power off holding FD	8192	points	FD0~F	08191										
,	FlashROM register	Special SFD	6000	points	SFD0~S	SFD59	99									
	гедізісі	Security register FS	48 pc	oints F	S0~FS47	,										

^{*}Note: ①Only the PLC with transistor output has high speed positioning function; ②The "-" in the table indicates that this model doesn't have this function.

③Special refers to system occupancy, cannot be used for other purposes; ④The D register range of XD5 firmware v3.4.5 and below is D0~D59999.

Differential type

| XD5-xDnTm series

Xd5 series high-speed differential PLC is designed according to the fast response demand of servo motor. It does not need conversion circuit, wiring is convenient and standard equipped with all functions of enhanced PLC.

- Program capacity 512KB
 I/O sequential control
- 3 Max I/O 560 points
- 4 Basic instruction 0.02~0.05us
- ⑤ RS232, RS485
- ⑥ X-NET fieldbus
- ① 4 axes 920KHz differential pulse output
- 8 4 channels 1MHz differential high speed counter
- USB port high speed download (max 12Mbps)



| Performance specification

Product series XD)5-	24D2T2	48D4T4				
	Total points	24	48				
Main body I/O	Input points	14	28				
	Output points	10	20				
Max I/O points		536	560				
High speed	General pulse output	2 axes 4 axes					
positioning	Differential pulse output	2 axes	4 axes				
High speed	Single/AB phase mode	2 channels	4 channels				
input	Input mode	2 channels	4 channels				
	Right expansion module	16	16				
Expansion ability	Left expansion module	1	1				
ability	BD board	1	2				
	External interrupt	10					
Interruption	Timing interrupt	20					
	Other interrupts	High speed counting interrupt, pulse interrupt					
Communication	Communication port	1 RS232 ports, 1 RS485 port, 1 USB port					
function	Communication protocol	Standard Modbus ASCII/RTU communication	on, free format communication				
Bus function		X-NET fieldbus					
PWM pulse width	modulation	Support					
Frequency measu	ırement	Support					
Precise timing		26 points ET0~ET25 (only even numbers can be used)					
Multi-station cont	trol	Support					
Program execution	on mode	Cyclic scanning mode					
Programming me	thod	Instruction, ladder diagram, C language					
Power off holding		Use FlashROM and lithium battery (3V button battery)					
Basic instruction	processing speed	0.02~0.05us					
User program capa	acity (secret download mode)	512KB					

| XD5 differential series model list

			Мо	del				
		AC power supp	ly	DC power supply				
T	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output		
NDN		XD5-24D2T2-E	*	8	*	*		
NPN type	=	XD5-48D4T4-E	=	*	~			

Product serie	s XD5-		24D2T2	48D4T4				
Security func	tion		6-bit ASCII password encryption, secret download	ding				
Self-diagnosis	s function		Power on self-test, monitoring timer, syntax chec	k				
Real-time clo	ck		Built-in clock, Lithium battery power supply, with	power down memory				
SD expansion	D expansion card		Support					
	Input relay (X)		1280 points: X0~X77, X10000~X11177, X20000~X20	0177, X30000~X30077				
	Output relay (Y)	1280 points: Y0~Y77, Y10000~Y11177, Y20000~Y20	0177,Y30000~Y30077				
		General M	70000 points M0~M69999					
	Auxiliary relay	Power off holding HM	12000 points HM0~HM11999					
		Special SM	5000 points SM0~SM4999					
	Flow	General S	8000 points S0~S7999					
Bit soft	Tiow	Power off holding HS	1000 points HS0~HS999					
component		Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s					
	Timer	General T	5000 points T0~T4999					
		Power off holding HT	2000 points HT0~HT1999					
		Specification	16-bit counter: 0~32767 32-bit counter: -2147483648~+2147483647					
	Counter	General C	5000 points C0~C4999					
		Power off holding HC	2000 points HC0~HC1999					
	Special coil for	WAIT instruction	32 points SEM0~SEM31					
		General D	70000 pointsD0~D69999					
	Data register	Power off holding HD	25000 points HD0~HD24999					
Word soft		Special SD	5000 points SD0~SD4999					
component	FloobDOM	Power off holding FD	8192 points FD0~FD8191					
	FlashROM register	Special SFD	6000 points SFD0~SFD5999					
	register	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.

Motion control type

| XDM series

In addition to all functions of standard PLC, it has faster processing speed (about 15 times that of XC Series), larger internal resource space, two-axis linkage, interpolation and follow-up functions, and supports external SD card for data storage. Support the connection of right expansion module, expansion BD board and left expansion module

- ① Program capacity 512KB~1.5MB
- ② I/O sequential control
- 3 Max I/O 572 points
- 4 Basic instruction 0.02~0.05us
- ⑤ RS232, RS485
- ⑥ X-NET fieldbus
- 7 4~10 axes 100KHz pulse output
- ® 4~10 channels high speed counter (single phase up to 80KHz, AB phase up to 50KHz)
- 9 Follow-up function
- (III) USB port high speed download (max 12Mbps)
- ① Linear/arc interpolation



| Performance specification

Product series XD	M-	24T4	32T4	60T4	60T4L	60T10					
	Total points	24	32	60	60	60					
Main body I/O	Input points	14	18	36	36	36					
	Output points	10	14	24	24	24					
Max I/O points		536	544	572	572	572					
High speed	General pulse output	4 axes	4 axes	4 axes	4 axes	10 axes					
positioning	Differential pulse output	×	~	1927	¥	la,"					
High speed	Single/AB phase mode	4 channels	4 channels	4 channels	4 channels	10 channels					
input	Input mode	OC	ОС	OC	ОС	OC					
	Right expansion module	16	16	16	16	16					
Expansion ability	Left expansion module	1	1	1	1	1					
ability	BD board	1	1	2	2	2					
	External interrupt	10									
Interruption	Timing interrupt	20									
	Other interrupts	High speed counting interrupt, pulse interrupt									
Communication	Communication port	1 RS232 ports, 1 RS485 port, 1 USB port									
function	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication									
Bus function		X-NET fieldbus									
PWM pulse width	modulation	Support									
Frequency measu	rement	Support									
Precise timing		26 points ET0~	ET25 (only even nur	nbers can be used)							
Multi-station cont	rol	Support									
Program executio	n mode	Cyclic scanning	mode								
Programming me	thod	Instruction, lad	der diagram, C lang	guage							
Power off holding		Use FlashROM and lithium battery (3V button battery)									
Basic instruction	processing speed	0.02~0.05us									
User program capa	acity (secret download mode)	512KB (XDM-60	T4L:1.5MB)		512KB (XDM-60T4L:1.5MB)						

XDM series model list

			Mod	del				
		AC power supp	oly	DC power supply				
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output		
	*	XDM-24T4-E	Q#X	e!	XDM-24T4-C	2.		
	5)	XDM-32T4-E	1 200	*	XDM-32T4-C	H		
NPN type	20	XDM-60T4-E	ie;	美	XDM-60T4-C	9		
	=	XDM-60T10-E	360	25	XDM-60T10-C	2:		
	50	XDM-60T4L-E	3	н	*	€.		
	80	XDM-24PT4-E	•)	+	XDM-24PT4-C	8		
NPN type	£	XDM-32PT4-E	93	K	XDM-32PT4-C	×		
	-	XDM-60PT10-E		¥	XDM-60PT10-C	€.		

Product serie	s XDM-		24T4	32T4	60T4	60T4L	60T10			
Security func	tion		6-bit ASCII passw	ord encryption, se	cret downloading					
Self-diagnosi	s function		Power on self-tes	t, monitoring time	r, syntax check					
Real-time clo	ck		Built-in clock, Lithium battery power supply, with power down memory							
SD expansion	card		Support							
	Input relay (X)		1280 points: X0~)	X77, X10000~X1117	7, X20000~X20177,	X30000~X30077				
	Output relay (Y)	1280 points: Y0~\	777, Y10000~Y1117	7, Y20000~Y20177,	Y30000~Y30077				
		General M	70000 points M0-	-M69999						
	Auxiliary relay	Power off holding HM	12000 points HM0~HM11999							
		Special SM	5000 points SM0	~SM4999						
	Flow	General S	8000 points S0~S7999							
Bit soft	TIOW	Power off holding HS	1000 points HS0~	-HS999						
component		Specification	100ms timer: 0.1- 1ms timer: 0.001	~3276.7s, 10ms tim ~32.767s	ner: 0.01~327.67s,					
	Timer	General T	5000 points T0~T4999							
		Power off holding HT	2000 points HT0	-HT1999						
		Specification	16-bit counter: 0- 32-bit counter: -2	~32767 2147483648~+2147	483647					
	Counter	General C	5000 points C0~0	C4999						
		Power off holding HC	2000 points HC0~HC1999							
	Special coil for	WAIT instruction	32 points SEM0~SEM31							
		General D	70000 pointsD0~	D69999						
	Data register	Power off holding HD	25000 points HD	0~HD24999						
Word soft		Special SD	5000 points SD0~	-SD4999						
component	FlashROM	Power off holding FD	8192 points FD0~	FD8191						
	register	Special SFD	6000 points SFD0	~SFD5999						
	. 56,500	Security register FS	48 points FS0~FS	547						

^{*}Note: ①Only the PLC with transistor output has high speed positioning function; ②The "-" in the table indicates that this model doesn't have this function.

③Special refers to system occupancy, cannot be used for other purposes.

| XD3E series

In addition to all the functions of XD3 series (except SD card function), it has faster processing speed, supports RS232, RS485 serial port communication and Ethernet communication, and supports the connection of right expansion module, BD board and left expansion ED module.

- Program capacity 256KB
 I/O sequential control
- 3 Max I/O 536 points
- ④ Basic instruction 0.02~0.05us
- ⑤ RS232, RS485, RJ45
- ⑥ X-NET fieldbus
- 7 2 axes 100KHz pulse output
- ® 3 channels high speed counter (single phase up to 80KHz, AB phase up to 50KHz)



| XD3E series model list

			Mo	del				
		AC power supp	bly	DC power supply				
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistoroutput	Transistor relay mixed output		
	XD3E-24R-E	XD3E-24T-E	=	3	35	ž!		
NPN type	XD3E-30R-E	XD3E-30T-E	=	X	· ·			
ivriv type –	XD3E-48R-E	XD3E-48T-E	-	3	9	H		
	XD3E-60R-E	XD3E-60T-E	×	20	=	8		
	5	-	5	XD3E-30PR-C	XD3E-30PT-C	5		
PNP type	12	2	=	XD3E-48PR-C	=	8		
	Ģ.	¥	-	₽	XD3E-60PT-C	S		

| Performance specification

Product series XD	3E-	24R/T	30R/T	48R/T	60R/T			
	Total points	24	30	48	60			
Main body I/O	Input points	14	16	28	36			
	Output points	10	14	20	24			
Max I/O points		536	542	560	572			
High speed	General pulse output	2 axes	2 axes	2 axes	2 axes			
positioning	Differential pulse output	ž	31	369	=			
High speed	Single/AB phase mode	3 channels	3 channels	3 channels	3 channels			
input	Input mode	OC	OC	ОС	ОС			
F	Right expansion module	10	10	10	10			
Expansion ability	Left expansion module	1	1	1	1			
ability	BD board	1	1	1	1			
	External interrupt	10						
nterruption	Timing interrupt	20						
	Other interrupts	High speed counting interrupt, pulse interrupt						
Communication	Communication port	1 RS232 port, 1 RS48	5 port, 2 Ethernet ports					
function	Communication protocol	Standard Modbus AS	SCII/RTU communication	, free format communica	ntion			
Bus function		X-NET fieldbus						
PWM pulse width	modulation	Support						
Frequency measu	rement	3 channels						
Precise timing		Support						
Multi-station cont	rol	2						
Program executio	n mode	Cyclic scanning mod	e					
Programming met	thod	Instruction, ladder diagram, C language						
Power off holding		Use FlashROM and lithium battery (3V button battery)						
Basic instruction p	processing speed	0.02~0.05us						
User program capa	city (secret download mode)	256KB						

Product serie	s XD3E-		24R/T	30R/T	48R/T	60R/T		
Security func	tion		6-bit ASCII password e	encryption, secret down	loading			
Self-diagnosis	s function		Power on self-test, mo	nitoring timer, syntax c	heck			
Real-time clo	ck		Built-in clock, Lithium	battery power supply, v	with power down memo	ory		
SD expansion	card		28					
	Input relay (X)		896 points: X0~X77, X10000~X11177, X20000~X20177, X30000~X30077					
	Output relay (Y)	896 points: Y0~Y77, Y1	0000~Y11177, Y20000~Y	20177, Y30000~Y30077			
		General M	8000 points M0~M799	9				
	Auxiliary relay	Power off holding HM	960 points HM0~HM95	59				
		Special SM	2048 points SM0~SM2	047				
	Flow	General S	1021 points S0~S1023					
D:+	Flow	Power off holding HS	128 points HS0~HS127					
Bit soft component	-	Specification	100ms timer: 0.1~3276 1ms timer: 0.001~32.7	5.7s, 10ms timer: 0.01~3 67s	27.67s,			
	Timer	General T	576 points TO~T575					
		Power off holding HT	96 points HT0~HT95					
		Specification	16-bit counter: 0~3276 32-bit counter: -21474					
	Counter	General C	576 points C0~C575					
		Power off holding HC	96 points HC~HC95					
	Special coil for	WAIT instruction	32 points SEM0~SEM3	1				
		General D	8000 points D0~D7999)				
	Data register	Power off holding HD	1000 points HD0~HD9	99				
Word soft		Special SD	2048 points SD0~SD20)47				
component	Fl	Power off holding FD	5120 points FD0~FD51	119				
	FlashROM register	Special SFD	2000 points SFD0~SFD	1999				
	register	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

| XD5E series

In addition to all functions of XD5 series (except SD card function), it has faster processing speed (about 2 ~ 3 times that of XDM series), larger internal resource space, supports RS232, RS485 serial port communication and Ethernet communication, and supports the connection of right expansion module, BD board and left expansion ED module.

- Program capacity 1MB
 I/O sequential control
- 3 Max I/O 572 points
- 4 Basic instruction 0.01~0.03us
- ⑤ RS232, RS485, RJ45
- ⑥ X-NET fieldbus
- ② 2~10 axes 100KHz pulse output
- Online downloading



| Performance specification

High speed positioning Differential pulse output Differential pulse output Differential pulse output Single/AB phase mode Input mode OC OC OC OC OC OC OC OC OC O	Product series XD5	5E-	24R/T	30R/T	30T4	48R/T	60R/T	60T4	60T6	60T10	
Output points 10		Total points	24	30	30	48	60	60	60	60	
Max I/O points	Main body I/O	Input points	14	16	16	28	36	36	36	36	
High speed positioning Differential pulse output Differential Differen		Output points	10	14	14	20	24	24	24	24	
positioning Differential pulse output	Max I/O points		536	542	542	560	572	572	572	572	
High speed input	High speed	General pulse output	2 axes	2 axes	4 axes	2 axes	2 axes	4 axes	6 axes	10 axes	
input Input mode OC	positioning	Differential pulse output	<u> </u>	:0	8	143	68	=	19	140	
Expansion ability Right expansion module 16 16 16 16 16 16 16 1	High speed	Single/AB phase mode	3 channels	3 channels	4 channels	3 channels	3 channels	4 channels	6 channels	10 channels	
Left expansion ability Left expansion module 1	input	Input mode	OC	OC	OC	OC	OC	OC	OC	OC	
Left expansion module 1	Formanian	Right expansion module	16	16	16	16	16	16	16	16	
BD board 1 1 1 2 2 2 2 2 2 2		Left expansion module	1	1	1	1	1	1	1	1	
Interruption Timing interrupt Other interrupts High speed counting interrupt, pulse interrupt Communication function Examination protocol Bus function Timing interrupt Communication port 1 RS232 ports, 1 RS485 port, 2 RJ45 ports Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication X-NET fieldbus PWM pulse width modulation 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 Instruction, ladder diagram, C language Power off holding Basic instruction processing speed 0.01~0.03us	ability	BD board	1	1	1	2	2	2	2	2	
Other interrupts High speed counting interrupt, pulse interrupt Communication function Communication protocol Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication protocol Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication protocol Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication protocol Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication protocol propert program execution modulation 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 Instruction, ladder diagram, C language Power off holding Use FlashROM and lithium battery (3V button battery) Basic instruction processing speed 0.01~0.03us		External interrupt	10								
Communication function Communication port Communication protocol Bus function PWM pulse width modulation Frequency measurement Precise timing Multi-station control Program execution mode Programming method Programming method Power off holding Bus function Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication, Ethernet communication, Free format communication, Ethernet communication, Ethernet communication, Ethernet communication, Free format communication, Ethernet communication, Ethernet communication, Free format communication, Ethernet communication,	Interruption	Timing interrupt	20								
function Communication protocol Bus function PWM pulse width modulation Frequency measurement Precise timing Multi-station control Program execution mode Programming method Programming method Power off holding Bus function X-NET fieldbus Support Support Support Support Cyclic scanning mode Instruction, ladder diagram, C language Power off holding Basic instruction processing speed O.01~0.03us		Other interrupts	High speed counting interrupt, pulse interrupt								
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 Instruction, ladder diagram, C language Power off holding Use FlashROM and lithium battery (3V button battery) Basic instruction processing speed 0.01~0.03us	Communication	Communication port	1 RS232	ports, 1 RS4	85 port, 2 RJ	45 ports					
PWM pulse width modulation Frequency measurement Precise timing 26 points ET0~ET25 (only even numbers can be used) Multi-station control Support Program execution mode Cyclic scanning mode Programming method Instruction, ladder diagram, C language Power off holding Use FlashROM and lithium battery (3V button battery) Basic instruction processing speed 0.01~0.03us	function	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication								
Frequency measurement Precise timing 26 points ET0~ET25 (only even numbers can be used) Multi-station control Support Program execution mode Cyclic scanning mode Programming method Instruction, ladder diagram, C language Power off holding Use FlashROM and lithium battery (3V button battery) Basic instruction processing speed 0.01~0.03us	Bus function		X-NET fie	eldbus							
Precise timing 26 points ET0~ET25 (only even numbers can be used) Multi-station control Program execution mode Cyclic scanning mode Programming method Instruction, ladder diagram, C language Power off holding Use FlashROM and lithium battery (3V button battery) Basic instruction processing speed 0.01~0.03us	PWM pulse width	modulation	Support								
Multi-station control Program execution mode Programming method Programming method Power off holding Basic instruction processing speed Support Cyclic scanning mode Instruction, ladder diagram, C language Use FlashROM and lithium battery (3V button battery) 0.01~0.03us	Frequency measur	rement	Support								
Program execution mode Cyclic scanning mode Programming method Instruction, ladder diagram, C language Power off holding Use FlashROM and lithium battery (3V button battery) Basic instruction processing speed 0.01~0.03us	Precise timing		26 point	s ET0~ET25	only even nu	umbers can l	oe used)				
Programming method Instruction, ladder diagram, C language Power off holding Use FlashROM and lithium battery (3V button battery) Basic instruction processing speed 0.01~0.03us	Multi-station cont	rol	Support								
Power off holding Use FlashROM and lithium battery (3V button battery) Basic instruction processing speed 0.01~0.03us	Program execution	n mode	Cyclic sc	anning mod	e						
Basic instruction processing speed 0.01~0.03us	Programming met	hod	Instructi	on, ladder d	iagram, C lar	nguage					
	Power off holding		Use FlashROM and lithium battery (3V button battery)								
User program capacity (secret download mode) 1MB	Basic instruction p	processing speed	0.01~0.0	3us							
	User program capa	city (secret download mode)	1MB								

| XD5E series model list

			Mod	del		
		AC power supp	ly		DC powers	supply
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
	XD5E-24R-E	XD5E-24T-E	*	XD5E-24R-C	*	5
	XD5E-30R-E	XD5E-30T-E	×	8	*	*
	-	XD5E-30T4-E	-	3	XD5E-30T4-C	*
NPN type	XD5E-48R-E	XD5E-48T-E	*		*	×
	XD5E-60R-E	XD5E-60T-E	8	-	*	€.
	÷	XD5E-60T4-E	8	2	XD5E-60T4-C	e e
	2	XD5E-60T6-E	-	£	XD5E-60T6-C	¥
	-	XD5E-60T10-E	-	#	XD5E-60T10-C	¥
	2	-	-	XD5E-30PR-C	2	2
	ş	XD5E-30PT4-E	g.	e;	¥	Si Si
NPN type				XD5E-48PR-C	*	
ivriv type	-	-	-	2	XD5E-60PT-C	₽
	=	XD5E-60PT6-E	<u>=</u>	2	22	₽.
	2	=	÷ ·	≡ =	XD5E-60PT10-C	2
Bipolar	XD5E-60NPR-E	=	2	2	5	4

Product serie	s XD5E-		24R/T	30R/T	30T4	48R/T	60R/T	60T4	60T6	60T10		
Security func	tion		6-bit ASCI	password e	encryption, s	secret down	loading					
Self-diagnosis	s function		Power on	self-test, mo	nitoring tim	er, syntax c	heck					
Real-time clo	ck		Built-in clo	Built-in clock, Lithium battery power supply, with power down memory								
SD expansion	card		-									
	Input relay (X)		1280 poin	ts: X0~X77, X	(10000~X111	.77, X20000	~X20177, X3	30000~X300	77			
	Output relay (Y)	1280 poin	ts: Y0~Y77, Y	10000~Y111	77, Y20000^	Y20177, Y3	0000~Y3007	7			
		General M	70000 poi	nts M0~M69	999							
	Auxiliary relay	Power off holding HM	12000 poi	12000 points HM0~HM11999								
		Special SM	5000 points SM0~SM4999									
	Flow	General S	8000 poin	8000 points S0~S7999								
D'4 4	Flow	Power off holding HS	1000 poin	ts HS0~HS99	99							
Bit soft component		Specification		ner: 0.1~3270 : 0.001~32.7	6.7s, 10ms ti 67s	mer: 0.01~3	27.67s,					
	Timer	General T	5000 poin	ts T0~T4999)							
		Power off holding HT	2000 poin	ts HT0~HT1	999							
		Specification		nter: 0~327 nter: -21474	67 83648~+214	17483647						
	Counter	General C	5000 poin	ts C0~C4999)							
		Power off holding HC	2000 poin	ts HC0~HC1	999							
	Special coil for	WAIT instruction	32 points SEM0~SEM31									
		General D	70000 poi	ntsD0~D699	99							
	Data register	Power off holding HD	25000 poi	nts HD0~HD	24999							
Word soft		Special SD	5000 poin	ts SD0~SD49	999							
component	EL LEON	Power off holding FD	8192 poin	ts FD0~FD81	L91							
oo.nponent	FlashROM register	Special SFD	6000 poin	ts SFD0~SFI	05999							
	register	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

| XDME series

In addition to all the functions of XDM series, it has faster processing speed (about 2 \sim 3 times that of XDM Series), larger internal resource space, and supports the connection of right expansion module, BD board and left expansion ED module.

- ① Program capacity 1MB
- ② I/O sequential control ③ Max I/O 572 points
- 4 Basic instruction 0.01~0.03us
- ⑤ RS232, RS485, RJ45
- ⑥ X-NET fieldbus
- ① 4~10 axes 100KHz pulse output
- ® 4~10 channels high speed counter (single phase up to 80KHz, AB phase up to 50KHz)
- 9 Linear/arc interpolation
- 10 Follow-up function



| Performance specification

			r	i			
Product series XD	ME-	30T4	60T4	60T10			
	Total points	30	60	60			
Main body I/O	Input points	16	36	36			
	Output points	14	24	24			
Max I/O points		542	572	572			
High speed	General pulse output	4 axes	4 axes	10 axes			
positioning	Differential pulse output	¥	950	549			
High speed	Single/AB phase mode	4 channels	4 channels	10 channels			
input	Input mode	oc	ОС	ОС			
	Right expansion module	16	16	16			
Expansion	Left expansion module	1	1	1			
ability	BD board	1	2	2			
	External interrupt	10					
Interruption	Timing interrupt	20					
	Other interrupts	High speed counting interrupt, pulse interrupt					
Communication	Communication port	1 RS232 ports, 1 RS485 port,	2 RJ45 ports				
function	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication					
Bus function		X-NET fieldbus					
PWM pulse width	modulation	Support					
Frequency measu	rement	Support					
Precise timing		26 points ET0~ET25 (only even numbers can be used)					
Multi-station cont	rol	Support					
Program executio	n mode	Cyclic scanning mode					
Programming me	thod	Instruction, ladder diagram, C language					
Power off holding	5	Use FlashROM and lithium ba	attery (3V button battery)				
Basic instruction	processing speed	0.01~0.03us					
User program capa	acity (secret download mode)	1MB					

| XDME series model list

			Mo	del		
AC power supply				DC power supply		
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output
		XDME-30T4-E	ž.		XDME-30T4-C	2
NPN type	=	XDME-60T4-E	:-	*	*	*
	-	XDME-60T10-E		Ε,		

Product serie	s XDME-		30T4	60T4	60T10			
Security func	tion		6-bit ASCII password encryption	on, secret downloading				
Self-diagnosis function			Power on self-test, monitoring timer, syntax check					
Real-time clo	ck		Built-in clock, Lithium battery	power supply, with power dow	n memory			
SD expansion card								
	Input relay (X)		1280 points: X0~X77, X10000~X	X11177, X20000~X20177, X30000	0~X30077			
	Output relay (Y)	1280 points: Y0~Y77, Y10000~Y	/11177, Y20000~Y20177, Y30000	~Y30077			
		General M	70000 points M0~M69999					
	Auxiliary relay	Power off holding HM	12000 points HM0~HM11999					
		SpecialSM	5000 points SM0~SM4999					
	Flow	GeneralS	8000 points S0~S7999					
Bit soft	1.0.0	Power off holding HS	1000 points HS0~HS999					
component		Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s					
	Timer	General T	5000 points T0~T4999					
		Power off holding HT	2000 points HT0~HT1999					
		Specification	16-bit counter: 0~32767 32-bit counter: -2147483648~-	+2147483647				
	Counter	General C	5000 points C0~C4999					
		Power off holding HC	2000 points HC0~HC1999					
	Special coil for	WAIT instruction	32 points SEM0~SEM31					
		General D	70000 pointsD0~D69999					
	Data register	Power off holding HD	25000 points HD0~HD24999					
Word soft		Special SD	5000 points SD0~SD4999					
component	Fleebook	Power off holding FD	8192 points FD0~FD8191					
	FlashROM register	Special SFD	6000 points SFD0~SFD5999					
	register	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

| XDH series

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

- ① Program capacity 2~4MB
- ② Ethernet communication
- 3 Max I/O 572 points
- 4 Basic instruction 0.01~0.05us
- ⑤ RS232, RS485, RJ45
- ⑥ X-NET fieldbus
- ① 4 axes 100KHz pulse output
- 8 4 channels high speed counter (up to 200KHz)
- 10 Follow-up function
- 11) EtherCAT communication
- ② 16 channels electronic CAM (XDH-30A16L cannot support)



| Performance specification

Product series XDH-		30A16	30A16L	60T4	60A32	60A64		
	Total points	30	30	60	60	60		
Main body I/O	Input points	16	16	36	36	36		
	Output points	14	14	24	24	24		
Max I/O points		542	542	572	572	572		
High speed	General pulse output	4 axes	4 axes	4 axes	4 axes	4 axes		
positioning	Differential pulse output	20	>	140	×	Æ		
High speed	Single/AB phase mode	4 channels	4 channels	4 channels	4 channels	4 channels		
input	Input mode	OC	OC	OC	OC	OC		
	Right expansion module	16	16	16	16	16		
Expansion ability	Left expansion module	1	1	1	1	1		
ability	BD board	0	0	1	1	1		
	External interrupt	10						
Interruption	Timing interrupt	20						
	Other interrupts	High speed counting interrupt, pulse interrupt						
Communication	Communication port	1 RS232 ports, 1 RS485 port, 2 RJ45 ports						
function	Communication protocol	Standard Modbus ASCII/RTU communication, free format communication, Ethernet communication						
Bus function		EtherCAT bus control XDH-30A16, XDH-60A32, XDH-60T4, XDH-60A64: support single axis, axis group motion and electronic CAM function. XDH-30A16L: support single axis, axis group motion (Note: cannot support electronic CAM)						
Du3 IUIICUOII		electronic CAM fu	nction.		0 , 0			
PWM pulse width	modulation	electronic CAM fu	nction.		0 , 0			
		electronic CAM fu XDH-30A16L: supp	nction.		0 , 0			
PWM pulse width		electronic CAM fu XDH-30A16L: supp Support	nction.	group motion (Note	0 , 0			
PWM pulse width Frequency measu	rement	electronic CAM fu XDH-30A16L: supp Support	nction. port single axis, axis	group motion (Note	0 , 0			
PWM pulse width Frequency measu Precise timing	rement	electronic CAM fu XDH-30A16L: supp Support - 26 points ET0~ET2	nction. port single axis, axis 25 (only even numbe	group motion (Note	0 , 0			
PWM pulse width Frequency measu Precise timing Multi-station cont	rement rol n mode	electronic CAM fu XDH-30A16L: supp Support - 26 points ET0~ET2 Support Cyclic scanning m	nction. port single axis, axis 25 (only even numbe	group motion (Note	0 , 0			
PWM pulse width Frequency measu Precise timing Multi-station cont Program executio	rement rol n mode thod	electronic CAM fu XDH-30A16L: supp Support - 26 points ET0~ET2 Support Cyclic scanning m	nction. cort single axis, axis 25 (only even number ode	group motion (Note	0 , 0			
PWM pulse width Frequency measu Precise timing Multi-station cont Program executio Programming me	rement rol n mode thod	electronic CAM fu XDH-30A16L: supp Support - 26 points ET0~ET2 Support Cyclic scanning m Instruction, ladde	nction. cort single axis, axis 25 (only even number ode	group motion (Note	0 , 0			

XDH series model list

			Mod	del				
	AC power supply				DC power supply			
	Relay output	Transistor output	Transistor relay mixed output	Relay output	Transistor output	Transistor relay mixed output		
	8	XDH-30A16-E	(#)	*	#	8		
	=	XDH-30A16L-E	5 * 6	5	XDH-30A16L-C	*		
NPN type		XDH-60T4-E	ŝ + ŝ	+	XDH-60T4-C	€		
	*	XDH-60A32-E	(·		*	×		
	¥	XDH-60A64-E	846	*	*	£		
	Ξ	XDH-30PA16-E	1 + 1	×	*	÷		
	×	XDH-30PA16L-E	141	€	XDH-30PA16L-C	×		
PNP type	=	XDH-60PT4-E	GR.	¥	*	¥		
	-	XDH-60PA32-E	245	€	¥	a		
	2	XDH-60PA64-E	Ξ.	<u>=</u> ;	¥	÷.		

Product serie	s XDH-		30A16	30A16L	60T4	60A32	60A64		
Security func	tion		6-bit ASCII passv	word encryption, se	cret downloadi	ng			
Self-diagnosis	s function		Power on self-test, monitoring timer, syntax check						
Real-time clo	ck		Built-in clock, Li	thium battery powe	er supply, with p	ower down memory			
SD expansion card			2						
Input relay (X)			1280 points: X0~	X77, X10000~X1117	7, X20000~X201	.77, X30000~X30077			
	Output relay (Y)	1280 points: Y0~	Y77, Y10000~Y1117	7, Y20000~Y201	77, Y30000~Y30077			
		General M	200000 points M	I0~M199999					
	Auxiliary relay	Power off holding HM	20000 points HM	и0~HM19999					
		Special SM	50000 points SM	10~SM49999					
Flow	Flow	General S	20000 points HS	20000 points HS0~HS19999					
	Power off holding HS	2000 points HS0~HS1999							
		Specification	100ms timer: 0.1~3276.7s, 10ms timer: 0.01~327.67s, 1ms timer: 0.001~32.767s						
component	Timer	General T	20000 points T0~T19999						
		Power off holding HT	2000 points HT0~HT1999						
		Specification	16-bit counter: 0~32767 32-bit counter: -2147483648~+2147483647						
	Counter	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					
		General D	500000 points D	0~D499999		1000000 points D0~D9	99999		
	Data register	Power off holding HD	50000 points HD	0~HD49999		100000 points HD0~HI	099999		
Word soft	Data register	Special SD	65488 points SD	0~SD65487		<u> </u>			
component	FlashROM	Power off holding FD	65536 points SF	D0~SFD65535					
	register	Special SFD	50000 points SF	D0~SFD49999					
	register	Security register FS	48 points FS0~F	S47					

^{*}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 general specification

| General specification

Item	Specification
Insulation voltage	DC500V above 2MΩ
Anti noise	Noise voltage 1000Vp-p 1us pulse 1 minute
Air	No corrosive and combustible gas
Ambient temperature	0°C~60°C
Ambient humidity	5%~95% (no condensation)
Installation	It can be fixed with M3 screws or directly installed on the guide rail
Grounding (FG)	The third grounding (It shall not be grounded in common with strong current system)

^{*}Note: XDH series ambient temperature is 0°C~50°C.

| Power supply specification

AC power supply

| Input specification

■ NPN type

55

Item	Specification
Rated voltage	AC100V~240V
Allowable voltage range	AC90V~265V
Rated frequency	50/60Hz
Allowable instantaneous power off time	Interruption time ≤0.5 AC cycle interval ≥1s
Impulse current	Max 40A below 5ms/AC100V Max 60A below 5ms/AC200V
Maximum power consumption	15W (16 points)/ 30W (24 points and up)
Power supply for sensor	24VDC±10% 16 points max 200mA 32 points max 400mA

*Note: ① Please use more than 2mm² wires for the power cable to prevent voltage drop.

- $\ensuremath{\textcircled{2}}$ Even in case of power failure within 10ms, the PLC can continue to work. When the power is cut off for a long time or the abnormal voltage drops, the PLC will stop working and the output is also in off state. When the power supply is restored, the PLC will automatically start running.
- 3 The grounding terminals of basic unit and expansion module are recommended to be connected with each other and grounded reliably.

■ PNP type

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 Contactor input or NPN open Input signal format collector transistor Circuit insulation Photoelectric coupling insulation Input action display LED lights when the input is ON

■ Differential type Contents Input signal 5V differential signal 1MHz Input max frequency Circuit insulation Photoelectric coupling insulation Input action display LED lights when the input is ON

DC power supply

Allowable voltage range Rated frequency

Allowable instantaneous

Power supply for sensor

Rated voltage

power off time Impulse current

Maximum power consumption

	r .
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	Contactor input or NPN open collector transistor
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when the input is ON

Specification

15W (16 points)/ 30W (24 points and up)

24VDC±10% 16 points max 200mA

DC24V

DC21.6V~26.4V

120mA DC24V

10ms DC24V

10A DC26.4V

32 points max 400mA

| Output specification

■ Relay output

External power supply		Below AC250V, DC30V
Circuit insulation		Mechanical insulation
Action indicator		LED indicator
	Resistive load	3A
Max load	Inductive load	80VA
	Lamp load	100W
Min load	7-	DC5V 10mA
Dosponso timo	OFF→ON	10ms
Response time	ON→OFF	10ms

■ Transistor output

External powers	supply	DC5~30V
Circuit insulation	1	Optocoupler insulation
Action indicator		LED indicator
	Resistive load	0.3A
Max load	Inductive load	7.2W/DC24V
	Lamp load	1.5W/DC24V
Min load		DC5V 2mA
Open circuit leal	rage current	Below 0.1mA
Doon a non time	OFF→ON	Below 0.2ms
Response time	ON→OFF	Below 0.2ms

■ High speed pulse output

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

^{*}Note: terminal Y2, Y3 max pulse output frequency of XD3-24T4/32T4 is 20KHz.

■ Differential high speed output

Model	XD5-xDnTm-E
Output signal 5V differential signal	
Max frequency	920KHz
Circuit insulation Photoelectric coupling insulation	
Action indicator	LED indicator
Response time OFF→ON	Below 0.2ms

| 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 number	1~255 (the default is 1)	
Delay before sending	1~100ms (the default is 3ms)	
Reply timeout	1~1000ms (the default is 300ms)	
Retry count	1~20 times (the default is 3 times)	

Expansion unit

In order to meet more application requirements, XD series PLC basic units can be equipped with rich I/O expansion modules, analog input and output modules, temperature control modules, BD boards and left expansion modules. The ontology can expand up to $10 \sim 16$ right expansion modules, $1 \sim 2$ BD boards and 1 left expansion module of different types.



The compact expansion card can be directly installed on the basic unit, does not

occupy excess space, and can

complete the communication

expansion function.

| Left expansion module | Expansion BD

Analog and temperature expansion module

With D/A, A/D conversion and temperature measurement

Communication module

PLC can realize wireless WiFi, 4G and other data transmission, as well as wired communication of RS232, RS485 and CANopen. | Right expansion module

I/O expansion module

It is used to expand the number of input and output points. The number of points is 8 ~ 32, and the basic unit can be expanded by 512 points at most.

The output expansion module is divided into transistor (T) and relay (R) output types.

Analog and temperature expansion module

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

By adding PID regulation function, it can be used more widely, flexibly and controlled with higher precision. Only four parameters need to be set.

Each channel of the temperature control module can carry out PID control independently, which can do self-tuning, and exchange information with the PLC through FROM and

| General specification

ltem	Specification	
Using environment	No corrosive gas	
Ambient temperature	0°C ~ 60°C	
Storage temperature	-20 ~ 70°C	
Ambient humidity	5 ~ 95%RH	
Storage humidity	5~95%RH	
Installation	It can be fixed with M3 screws or directly installed on the guide rail of DIN46277 (35mm wide); BD board is directly installed on the top of PLC.	

Right expansion module

| I/O expansion module

When the number of ontology points cannot meet the use requirements, this type of extension module can be used. The basic unit can be expanded by 512 points.



Total I/O points: 8 points/16 points

Total I/O points: 32 points

■ Digital input module

Model		Function description	Specification	
NPN input type PNP input type		runction description	Specification	
XD-E8X	XD-E8PX	8 channels digital input, DC24V power supply	1 101 11 1 10	
XD-E16X	XD-E16PX	16 channels digital input, DC24V power supply	Input filter time 1~50ms External wiring method: terminal block	
XD-E32X-E	XD-E32PX-E	32 channels digital input, AC220V power supply	Wiring method: same to PLC unit	
XD-E32X-C	XD-E32PX-C	32 channels digital input, DC24V power supply		

■ Digital output module

Model	Function description	Specification	
XD-E8YR	8 channels relay output, no need power supply	R: relay output	
XD-E8YT	8 channels transistor output, no need power supply	T: transistor output	
XD-E16YR	16 channels relay output, no need power supply	R response time below 10ms	
XD-E16YT	16 channels transistor output, no need power supply	T response time below 0.2ms R max load: resistive 3A, inductive 80VA	
XD-E32YR-E	32 channels relay output, AC220V power supply	T max load: max output current of each	
XD-E32YR-C	32 channels relay output, DC24V power supply	point is 0.3A	
XD-E32YT-E	32 channels transistor output, AC220V power supply	External wiring method: terminal block	
XD-E32YT-C	32 channels transistor output, DC24V power supply	Wiring method: same to PLC unit	

■ Digital I/O module

-			1	
Model		Function description	Specification	
NPN input type	PNP input type	Function description	<u> Эреспісаціон</u>	
XD-E8X8YR	XD-E8PX8YR	8 channels digital input, 8 channels relay output DC24V power supply	Input filter time 1~50ms	
XD-E8X8YT	XD-E8PX8YT	8 channels digital input, 8 channels transistor output DC24V power supply	R: output relay T: output transistor	
XD-E16X16YR-E	XD-E16PX16YR-E	16 channels digital input, 16 channels relay output AC220V power supply	R response time below 10ms T response time below 0.2ms	
XD-E16X16YR-C	XD-E16PX16YR-C	16 channels digital input, 16 channels relay output DC24V power supply	R max load: resistive 3A, inductive 80VA T max load: max output current of each point is 0.3A	
XD-E16X16YT-E	XD-E16PX16YT-E	16 channels digital input, 16 channels transistor output AC220V power supply	External wiring method: terminal block Wiring method: same to PLC unit	
XD-E16X16YT-C	XD-E16PX16YT-C	16 channels digital input, 16 channels transistor output DC24V power supply		

Expansion unit

| Analog and temperature expansion module

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

With PID regulation function, it can be used more widely, flexibly, and has higher control accuracy. Only four parameters need to be set.

Each channel of the temperature control module can carry out PID control independently, can do self-tuning, and exchange information with the PLC through the FROM, TO command.



■ Analog input module (AD type)

Model	Channel	Input signal	Specification
XD-E4AD	4	Input voltage: 0~5V/0~10V/-5~5V/-10~10V Input current: 0~20mA/4~20mA/-20~20mA	
XD-E8AD	8	Input voltage: 0~5V/0~10V/-5~5V/-10~10V Input current: 0~20mA/4~20mA/-20~20mA (first four channels are voltage, last four channels are current)	Power supply for analog DC24V±10%, 150mA Conversion speed 2ms/channel Resolution 1/16383 (14 bits) Comprehensive accuracy ±1% AD filter coefficient 0-254
XD-E8AD-A	8	Input current: 0~20mA/4~20mA/-20~20mA	Channel enabit bit is added AD channel has the functions of short circuit,
XD-E8AD-V	8	Input voltage: 0~5V/0~10V/-5~5V/-10~10V	open circuit and over range detection
XD-E12AD-V	12	Input voltage: 0~5V/0~10V/-5~5V/-10~10V	

■ Analog output module (DA type)

Model	Channel	lunut sienel	Specification
Model	Chamilei	Input signal	Specification
XD-E2DA	2	Output voltage: 0~5V/0~10V/-5~5V/-10~10V Output current: 0~20mA/4~20mA	Power supply for analog DC24V±10%, 150mA Conversion speed 2ms/channel Resolution 1/4095 (12 bits)
XD-E4DA	4	Output voltage: 0~5V/0~10V Output current: 0~20mA/4~20mA	Comprehensive accuracy ±1% Channel enabit bit is added

■ Temperature control module (PT&TC)

Model	Channel	Input signal	Specification	
XD-E4PT3-P	4	Pt100, PT1000 Platinum thermistor Temperature range -100°C~500°C (digital output range -1000~5000, signed 16 bits, binary)	Analog power supply DC24V±10%, 50mA Resolution: 0.1°C Comprehensive accuracy: ±0.5% (relative maximum value) PT conversion speed: 80ms/1 channel PT3 conversion speed: 450ms/4 channels	
XD-E6PT-P	6	Pt100, PT1000 platinum thermistor (two-wire system) Temperature measurement range: -100.0°C~500.0°C (PT100, PT1000)	Filter coefficient: 0~254 Each channel is independently PID controlled and supple self-tuning function Capable of detecting power outages, disconnections, exceeding the range	
XD- E2TC-P	2	K, S, E, N, B, T, J, and R-type thermocouples temperature range: K-TYPE 0.0°C~1300.0°C	Analog power supply DC24V±10%, 50mA Resolution: 0.1°C Comprehensive accuracy: ±1% (relative maximum value) Conversion speed: 80ms/1 channel Each channel is independently PID controlled and suppor self-tuning function Capable of detecting power outages, disconnections, are exceeding the range	
XD-E6TC-P	6	S-TYPE 0.0°C~1700.0°C N-TYPE 0.0°C~1200.0°C T-TYPE0.0°C~400.0°C R-TYPE 0.0°C~1700.0°C		
XD-E6TC-P-H	6	K, S, E, N, B, T, J, and R-type thermocouples temperature range: K-type -200.0°C~1372.0°C B-type -250.0°C~1798.0°C S-type -50.0°C~1768.0°C N-type -200.0°C~1300.0°C R-type -50.0°C~1768.0°C R-type -50.0°C~1768.0°C	Analog power supply DC24V±10%, 50mA Resolution: 0.1°C Comprehensive accuracy: ±1% (relative maximum value) Conversion speed: 80ms/1 channel Each channel is independently PID controlled and supports self-tuning function Capable of detecting power outages, disconnections, and exceeding the range	

■ Analog I/O hybrid module (nADxPTmDA type)

Model	Channel		I/O signal	Specification	
Model	Input	Output	I/O signat	Specification	
XD-E4AD2DA	4	2	Input voltage: 0~5V/0~10V/-5~5V/-10~10V Input current: 0~20mA/4~20mA/-20~20mA Output voltage: 0~5V/0~10V/-5~5V/-10~10V Output current: 0~20mA/4~20mA	Power supply for analog DC24V±10%, 150mA Conversion speed 2ms/channel Input resolution 1/16383 (14-bit) Output resolution 1/4095 (12-bit) AD filter coefficient 0~254 Comprehensive accuracy ±1% Channel enable bit is added AD channel has the functions of short circuit, open circuit and over range detection	
XD-E2AD2PT2DA	4	2	1.Input voltage: 0~5V/0~10V Input current: 0~20mA/4~20mA Output voltage: 0~5V/0~10V Output current: 0~20mA/4~20mA Temperature collection: PT100 Platinum thermistor Temperature range: -100°C ~500°C (digital output range -1000~5000, signed 16 bits, binary)	Power supply for analog DC24V±10%, 150mA Conversion speed 2ms/channel Input resolution 1/16383 (14-bit) Output resolution 1/1023 (10-bit) AD filter coefficient 0~254 PT channel resolution 0.1°C Comprehensive accuracy ±1% (relative max value) PT conversion speed 2ms/channel PT filter coefficient 0~254 Channel enable bit is added	
XD-E3AD4PT2DA	7	2	Input current: 0~20mA/4~20mA Output voltage: 0~5V/0~10V Temperature collection: PT100 Platinum thermistor Temperature range: -100°C ~500°C (digital output range -1000~5000, signed 16 bits, binary)	Power supply for analog DC24V±10%, 150mA Conversion speed 2ms/channel Input resolution 1/16383 (14-bit) Output resolution 1/1023 (10-bit) AD filter coefficient 0~254 PT channel resolution 0.1°C Comprehensive accuracy ±1% (relative max value) PT conversion speed 2ms/channel PT filter coefficient 0~254 Channel enable bit is added	

| 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 practical operation.

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

■ Module features

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

Item	Specification	
Model	XD-E1WT-D,XD-E2WT-D,XD-E4WT-D	
Analog input range	DC-20~20mV	
A/D actual resolution	1/8388607 (23Bit)	
Max display resolution	1/500000	
Nonlinear	0.01%F.S0.01%F.S	
Conversion speed	150 times/s, 300 times/s, 450 times/s optional	
Power supply	DC24V±10%	
Sensor excitation power supply	5VDC/120mA, four 350Ω load cells can be connected in parallel	
Software version	V3.5.3 and up	



1~2 channels weighing 4 channels weighing

Expansion unit

SSI encoder measurement module XD-E4SSI

■ Module features

- ① Support 4-channel absolute encoder position or displacement sensor detection
- ② Suitable for $10 \sim 31$ bits SSI encoder, supporting 125KHz ~ 1 MHz communication frequency and gray code or binary format coding
- ③ It has the function of disconnection detection and alarm



Specification

Item	Specification
Module power supply	DC24V (input range: 20.4~28.8V)
Module power consumption	1W (no load)
Position detection	Absolute mode
Difference between SSI data and clock signal	Comply with RS422 standard
Encoder bit number	10bit~31bit
Digital output range	0~encoder max feedback value
Resolution	1/encoder max feedback value
Communication frequency	125KHz~1MHz
Coding type	Gray code or binary code
Comprehensive accuracy	1%
Conversion speed	400us/channel
Power supply for encoder	DC24V±10%, 100mA or 300mA

■ XD-E4SSI communication speed and cable length

Communication speed	Shielded twisted pair length
125KHz	Max 320m
250KHz	Max 160m
500KHz	Max 60m
1MHz	Max 20m

Macro measurement module XD-E2GRP

Precision displacement sensor is also called position sensor. Digital displacement sensors are widely used to transform old machine tools and equip new machine tools. After ordinary machine tools are equipped with digital display devices, they can meet the machining accuracy requirements of most parts and are suitable for machining complex parts.

XD-E2GRP can be widely used in precision measurement occasions, such as bearing inner and outer diameter detection, shaft product detection, non-standard product detection, etc.

■ Performance features

- ① Range: ±1000um
- ② Resolution: 0.1um
- ③ Full range linearity error: ≤0.1%
- ④ Repeatability error: ≤1um
- ⑤ Working temperature range: -10~50°C
- ⑥ Data collection mode: parallel communication



Item	Specification
Power supply	DC24V±10%
Nonlinear	0.001%F.S
Time drift	0.005%F.S
Input sensitivity	0.004uV/d
Comprehensive accuracy	0.1%

Left expansion ED module

In addition to supporting the right expansion module, XD series PLC can also expand another ED module on the left side of the PLC. The left expansion ED module is designed as a thin sheet, occupies less space, and has the functions of AD/DA conversion, temperature measurement, remote communication and so on.

Analog and temperature expansion ED module

With the functions of AD/DA conversion, temperature measurement. XD series (except XD1 series) can connect 1 ED module.

Model	I/O signal	Specification	
XD-4AD-A-ED	4 channels current input: 0~20mA/4~20mA		
XD-4AD-V-ED	4 channels voltage input: 0~5V/0~10V		
XD-4DA-A-ED	4 channels current output: 0~20mA/4~20mA	Power supply for the module: DC24V±10%, 150mA	
XD-4DA-V-ED	4 channels voltage output: 0~5V/0~10V	Conversion speed: 10ms (all the channels) AD/DA: Current/voltage input resolution: 1/4095 (12-bit) Current/voltage output resolution: 1/1023 (10-bit) AD/DA conversion comprehensive accuracy: ±1% PT:	
XD-2AD2DA-A-ED	2 channels current input: 0~20mA/4~20mA 2 channels current output: 0~20mA/4~20mA		
XD-2AD2DA-V-ED	2 channels voltage input: 0~5V/0~10V 2 channels voltage output: 0~5V/0~10V		
XD-2AD2PT-A-ED	2 channels current input: 0~20mA/4~20mA 2 channels temperature input: PT100 platinum thermistor		
XD-2AD2PT-V-ED	2 channels voltage input: 0~5V/0~10V 2 channels temperature input: PT100 platinum thermistor Temperature range: -100~500°C Digital output range: -1000~5000 Temperature input resolution: 0.1°C		~5000
XD-2PT2DA-A-ED	2 channels temperature input: PT100 platinum thermistor 2 channels current output: 0~20mA/4~20mA	PT channel comprehensive accuracy: ±0.8% of the full scale	
XD-2PT2DA-V-ED	2 channels temperature input: PT100 platinum thermistor 2 channels voltage output: 0~5V/0~10V		
XD-1TC-ED	K, S, E, N, B, T, J and R type thermocouple Temperature measuring range 0°C ~ 1300°C (K type) (digital output range 0~13000, signed 16-bit, binary)	Power supply for analog is Di Resolution: 0.1°C Integrated precision ±1% (re TC conversion speed 80ms/c	elative max value)
XD-4PT-ED	Pt100, PT1000 Platinum thermistor Temperature measuring range -100°C ~ 500°C (digital output range -1000~5000, signed 16-bit, binary)	Power supply for analog is DC24V \pm 10%, 50mA Control precision \pm 0.5% Resolution: 0.1°C Integrated precision \pm 1% (relative max value) PT conversion speed 80ms/ channel	Pt3 conversion speed 450ms/ 4 channels PT filter coefficient 0~254 Each channel has independent PID parameters Support self-tuning function Optional sampling period

| Communication expansion ED module

PLC can realize wireless WIFI, 4G and other data transmission, as well as wired communication such as RS232, RS485 and CANopen.

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■ XD-4GBOXL-ED Left expansion 4GBOX module

- ① Realize wireless downloading and real-time monitoring of PLC program ② SMS communication with user's mobile phone
- 3 Support remote monitoring
- Support multiple Telecom operators including China Mobile, China Telecom, China Unicom
- Support GPS positioning function 6 As the left expansion ED module of XD series PLC,
- the transmission rate can reach 1M T Support fieldbus (X-NET) and deep optimization of data monitoring
- Some lasting online, with disconnection redial and watchdog functions

■ XD-NES-ED Left expansion RS232/RS485 module



XD series extended ED module can expand one RS232 or RS485 port (support fieldbus communication).

support Xinje Cloud accesscess

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■ XD-COBOX-ED CANopen communication module



1) The communication rate can reach 1Mbps

① Support 2.4GHz wireless WLAN technology

② Support AP (wireless hotspot) and STA mode

③ XD-WBOX-ED is left expansion TTL interface

technology

S XD series PLC provides data support for

③ Support X-NET communication protocol,

4 Support wireless hotspot (same SSID) roaming

⑤ Support Modbus-TCP communication protocol

- ② 64 communication nodes
- 3 Support master and slave modes
- 4 The reliability of the system is improved
- ⑤ Heartbeat protection
- 6 Easier wiring

■ XD-WBOXL-ED Left expansion WIFI module

XD-WBOX-FD

(up to 4 connections)

Expansion unit

Expansion BD board

| Communication expansion BD board

■ XD-NE-BD

XD series expansion BD, fieldbus, X-NET interface.



The names of each part are as follows:

Name		Function
Communication indicator		The indicator flashes when the BD board communicating successfully
Terminal block	А	485+
	В	485-
	SG	Signal ground
	•	Vacant terminal
Terminal resistance dialing switch		Select whether terminal resistance is required through the dial switch (120 Ω)

■ XD-NO-BD

XD series expansion BD, fieldbus communication function and X-NET optical fiber interface. It is used for optical fiber communication. It has the advantages of high speed and strong anti-interference.



The names of each part are as follows:

Name	Function
Communication indicator	The indicator flashes when the BD board communicating successfully
Terminal block	On the left is the signal input terminal and on the right is the signal output terminal

■ XD-NS-BD

XD series expansion RS-232 BD.



The names of each part are as follows:

Name		Function
Communication indicator		The indicator flashes when the BD board communicating successfully
Terminal block	TX	Signal sending terminal
	RX	Signal receiving terminal
	GND	Grounding terminal
	•	Vacant terminal

| Precise clock expansion BD

■ XD-RTC-BD

More accurate clock function can be realized, and the clock error is about 13s per month.

Software version requirements: V3.5.3 and up.



Parts

List of basic unit accessories

■ Communication/programming ■ USB to serial port convertor cable

XVP/DVP

For communication and program uploading/downloading.



■ DB9 to RS485 cable

JC-EB-Length

Db9 to RS485 cable for RS485 communication between HMI and PLC. It has three models: JC-EB-3 (3m), JC-EB-5 (5m), JC-EB-8 (8m).



For interface conversion between DB9 female port and USB port.



■ X-NET fieldbus cable

JC-EA-Length

Use together with XD-NE-BD or XD-NES-BD. It has 7 models:

EA-05 (5m), JC-EA-10 (10m), JC-EA-20 (20m), JC-EA-30 (30m), JC-EA-50 (50m), JC-EA-100 (100m)



■ USB printer cable

JC-UA-15

Special download cable for Xinje products (except products without USB-B interface). Black, with double magnetic rings to improve anti-interference performance.



■ Relay module

Suitable for all the RS485 communication occasions.



■ Program downloader

- 1) Without computer, it can be used for program and data transfer and download between multiple Xinje PLCs.
- ② Suitable PLC: uploading requires the XD/ XL/XG2 series PLC firmware v3.4.6 or above v3.5.3 (Ethernet type) or ZG/ZP series integrated controller. Downloading requires the PLC firmware v3.4 and up.
- ③ JD-P03 has small appearance and takes up small space

*Note: Please refer to the manual for specific use. XDH, XC series PLC is not supported temporarily.



List of expansion module accessories

■ XD expansion module extension cable

XD extension cable has the length of 0.7m and 1.5m. Two 0.7m or one 1.5m cables can be added to a series of modules, and two 1.5m cables are not supported.



■ XD series terminal resistance

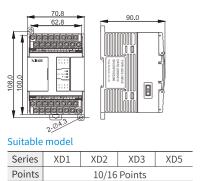
XD-ETR

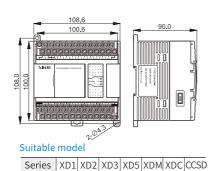
The terminal resistance is a small plug-in board, which is inserted into the expansion port of the last expansion module to improve the signal quality. This accessory is required when more than 5 modules are connected or extension cables are used.



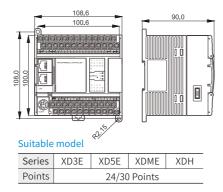
Dimension drawing (Unit: mm)

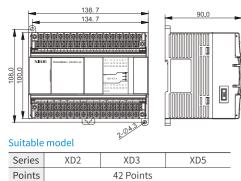
XD series basic unit

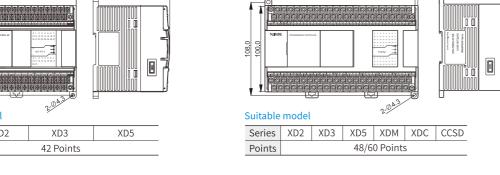


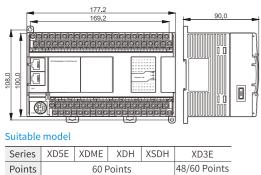


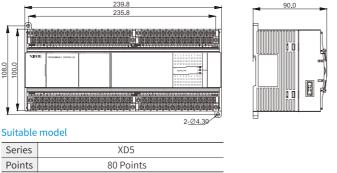
24/32 Points



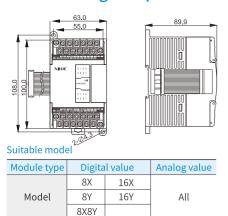


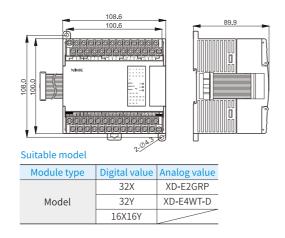






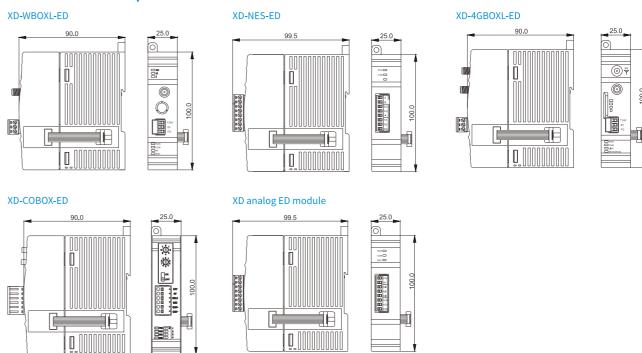
| XD series right expansion module



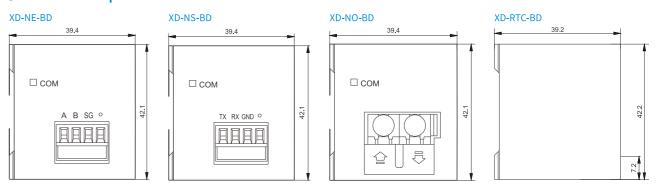


Dimension (Unit: mm)

I XD series left expansion ED module



| XD series expansion BD board



Host accessories

