RS OEMax **NX Series Controllers**

State-of-the-art PLC in a compact size

RS **Reliable & Smart Automation**

RS Automation OEMax NX Series

NX series becomes A Brand of a family of small, modular programmable controllers. Fully lined up with controllers which satisfy a wide variety of OEM applications, NX series delivers a wide range of communication configurations, user features and memory options which becomes the best feature of the series.

You can see how compact sized but world class PLC, NX Series is fit into your application within your budget. With advanced control functions, NX Series easily handle OEM applications you are thinking of.

Now it is time to experience innovation NX Series brings to your manufacturing.

Have the ideal blend of functionality in NX Series at a price that is more reasonable than you might expect.

NX Series Common Specifications

Item		Specifications
Temperature	Operating	0°C to +55°C (32°F to 131°F)
	Storage	-25°C to +70°C (-13°F to 158°F)
Humidity	Operating	30 ~ 85% RH (Non-condensing)
	Storage	30 ~85% RH (Non-condensing)
Withstand Voltage		I/O Terminal (ac) <-> Frame Ground (Power Unit), 1500V ac for 1 minute
		I/O Terminal (dc) <-> Frame Ground (Power Unit), 500V ac for 1 minute
Isolation resistance		I/O Terminal <-> Frame Ground (Power Unit), over 100 MΩ(at 500 mega V dc)
Vibration		10 Hz to 55Hz 1 sweep per minute,0.75mm peak to peak , 10 minutes per axis (X,Y,Z)
Shock		15g peak acceleration (11 ms duration) 3 times, each X, Y, Z direction
Noise Immunity		1500Vp-p with 50 ns to 1 µs pulse width (generated by noise simulator)
Environment		IP20(No corrosive gas, No excessive dust.)

Model Classification Series

Features of NX7

- Basic control to 28, 48 points and up to 104 digital I/O points or Basic 20p DI/O and 4/6Ch Analog I/O points Unit
- Supports 2 expansion unit
- 2 serial ports (2 RS232C/RS485 with Modbus RTU)
- Program memory size up 9K words
- Built-in HSC, Pulse catch, Pulse output (for TR output unit)
- Built-in real-time clock, PID function

Model Classification Series

NX7R Series Basic

Cat. No	Power Supply	Digital InPut	Digital OutPut	Analog In	Analog Out
NX7R-28ADR	AC100/220V	DC 16pts	Relay 12pts	-	-
NX7R-28ADT	AC100/220V	DC 16pts	TR(Sink) 12pts	-	-
NX7R-48ADR	AC100/220V	DC 24pts	Relay 16pts	-	-
NX7R-48ADT	AC100/220V	DC 24pts	TR(Sink) 16pts	-	-
NX7R-20ADR-4A	AC100/220V	DC 12pts	Relay 8pts	4Ch	-
NX7R-20ADR-6A	AC100/220V	DC 12pts	Relay 8pts	4Ch	2Ch

The perfect controller for small applications within small budget. This little powerhouse is compact and price-reasonable.

but it's big on performance.

Take a full advantage of high-speed networking and control capabilities of NX7.

Its compact design only takes up little panel space

but makes you machine staying on cutting-edge.

NX7s Series (Basic only)

Basic Points	Power Supply	DC IN/ Relay out	DC IN/ TR(sink) Out
10 points (6in/4out)	AC100/220	NX7S-10ADR	NX7S-10ADT
	DC24	NX7S-10DDR	NX7S-10DDT
14 points (8in/6out)	AC100/220	NX7S-14ADR	NX7S-14ADT
	DC24	NX7S-14DDR	NX7S-14DDT
20 points (12in/8out)	AC100/220	NX7S-20ADR	NX7S-20ADT
28 points (16in/12out)	AC100/220	NX7S-28ADR	NX7S-28ADT
40 points (24in/16out)	AC100/220	NX7S-40ADR	NX7S-40ADT
48 points (28in/20out)	AC100/220	NX7S-48ADR	NX7S-48ADT

Features of NX7R

- All new hardware software design from NX7
- 5 times faster than NX7
- 40KHz 2Channels HSC/PTO
- High speed 2 serial ports (RS232C/485, 115.2kbps)
- Large Memory (Program:32KW, Data:12KW)
- Optional 128KW Backup Memory
- Batteryless design
- Built-in Ehanced RTC

Features of NX7S

- Control 10,14,20,28,40,48 digital I/O points
- 2 serial ports (1 RS-232C, 1 RS485 with Modbus RTU)
- Program memory size up to 2K words
- Built-in backup flash memory
- Built-in HSC, Pulse output(for TR output unit only)

NX7 Series Basic

Cat. No	Power Supply	Digital Input	Digital Output	Analog In	Analog Out
NX7-20ADR-4A	AC100/220V	DC 12pts	Relay 8pts	4Ch	-
NX7-20ADT-4A	AC100/220V	DC 12pts	TR(Sink) 8pts	4Ch	-
NX7-20ADR-6A	AC100/220V	DC 12pts	Relay 8pts	4Ch	2Ch
NX7-20ADT-6A	AC100/220V	DC 12pts	TR(Sink) 8pts	4Ch	2Ch
NX7-28ADR	AC100/220V	DC 16pts	Relay 12pts	-	-
NX7-28ADT	AC100/220V	DC 16pts	TR(Sink) 12pts	-	-
NX7-28DDR	DC24V	DC 16pts	Relay 12pts	-	-
NX7-28DDT	DC24V	DC 16pts	TR(Sink) 12pts	-	-
NX7-48ADR	AC100/220V	DC 24pts	Relay 16pts	-	-
NX7-48ADT	AC100/220V	DC 24pts	TR(Sink) 16pts	-	-
NX7-48DDR	DC24V	DC 24pts	Relay 16pts	-	-
NX7-48DDT	DC24V	DC 24pts	TR(Sink) 16pts	-	-

NX7 Series Expansion I/O

Cat. No	Power Supply	Digital Input	Digital Output	Analog In	Analog Out
NX7-14EDR	DC24V	DC 8pts	Relay 6pts	-	-
NX7-14EDT	DC24V	DC 8pts	TR(Sink) 6pts	-	-
NX7-28EDR	DC24V	DC 16pts	Relay 12pts	-	-
NX7-28EDT	DC24V	DC 16pts	TR(Sink) 12pts	-	-

NX7 Series
Micro Logic Controller

NX7R / NX7 / NX7s Specification

Item	NX7R				NX7s						NX7			
	28xxx	20xxx-4A	20xxx-6A	48xxx	10xxx	14xxx	20xxx	28xxx	40xxx	48xxx	20xxx-4A	20xxx-6A	28xxx	48xxx
Program Memory	32K Word				2 K words						9 K words			
Data Memory	12 K Word				2.5 K Words						2.5 K Words			
Internal relay	3096 Points				3096 points						3096 points			
Keep relay	2048 points (Keep Data)				2048 points (Keep Data)						2048 points (Keep data)			
Data register	12K Word (Keep Data)				2048 words						2048 words (Keep data)			
Basic I/O Points														
Basic Digital I/O	28	20	20	48	10	14	20	28	40	48	20	20	28	48
Maximum Digital I/O	84	76	76	104	10	14	20	28	40	48	76	76	84	104
No. of Digital Input	16	12	12	28	6	8	12	16	24	28	12	12	16	28
No. of Digital Output	12	8	8	20	4	6	8	12	16	20	8	8	12	20
No. of Analog Input	0	4	4	0	-	-	-	-	-	-	4	4	-	-
No. of Analog Output	0	0	2	0	-	-	-	-	-	-	-	2	-	-
Expansion I/O Points														
Expansion Digital I/O	14/28 points				-						14 / 28 points			
Expansion Quantity	2 modules (unit)										2 modules(Units)			
Communication Port					2 Ports						2 Ports			
COM1	RS232/RS485 (D-Sub 9pin)				RS232C (D-sub 9pin)						RS232C/RS485 (D-sub 9pin)			
COM2	RS232/RS485 (RJ45 8pin)				RS485 (RJ45 8pin)						RS232C/RS485 (RJ45 8pin)			
Modbus RTU	Yes (COM1, COM2 port)				Yes (COM1, COM2 port)						Yes (COM1, COM2 port)			
User define Protocol	Yes (COM1, COM2 port)										Yes (COM2 port)			
Special Function														
High Speed Counter	2 CHs 40KHz/2 Phase, 32 bit				1 Ch (4KHz/2 Phase, 8KHz/1 Phase), 32Bit, Note1)									
Input Pulse Catch	4 points													
Pulse Output	2 CHs 40KHz/2 Phase 32 bit				2 CHs (for TR Output unit), PWM/Pulse(PTO) mode, 5KHz, 32Bit, Note1)									
Real Time Clock	Built-in enhanced RTC				-						Built-in			
PID Function	Yes										Yes (8 loop)			
Program Backup	NVSRAM or Option NX7R_MEMORY				EEPROM		SRAM or EEPROM							
Data Backup	NVSRAM				EEPROM		SRAM w/Battery							
Service Power(24Vdc)	Under 100mA				200 mA		400 mA							
Mounting	DIN Rail or Panel													
Dimension(W*H*D)	100*90*80	146*90*80			100*90*80				146*90*80				100*90*80	146*90*80

Note 1) FW version 2.20 and later

NX7 Expansion Unit

Item	NX7 , NX7R			
	NX7-14EDR	NX7-14EDT	NX7-28EDR	NX7-28EDT
I/O Points	14		28	
No. of Input	8 points		16 points	
No. of Output	6 points		12 points	
I/O Type				
Type of Input	DC12/24V	DC12/24V	DC12/24V	DC12/24V
Type of Output	Relay	TR(Sink)	Relay	TR(Sink)
Input Power	N/A			
Mounting	DIN Rail or Panel			
Dimension(W*H*D)	100*90*80			

NX70 Series
Small Logic Controller

Whatever your control needs are, you will find a definite answer from NX70 series designed to handle an extensive range of OEM applications.

NX70 includes
Scalable program memory and backplane options for you to select within the budget.

Optional I/O units to match unique specifications of your machine.

Run time editing for faster machine start-up and process improvements preventing down-time.
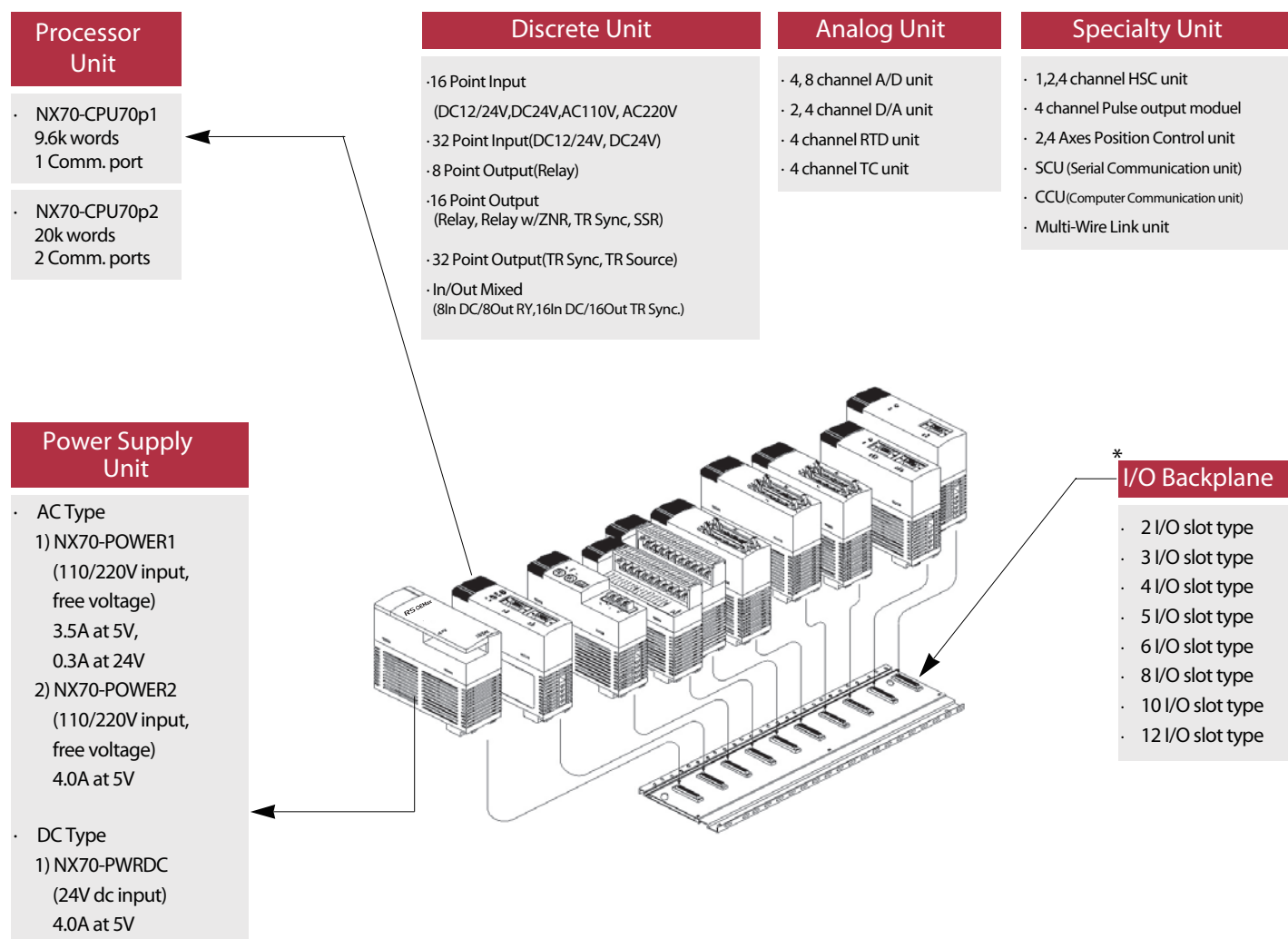
Find all functionality in NX70.

Features of NX70

1. **Fast, powerful processors**
   High speed basic instructions-performance-0.2μ sec/STEP

2. **Control up to 384 digital I/O points**
   The 12-slot NX70 allows up to 384 points (192 points using terminal blocks)

3. **Various I/O types and specialty units**
   DC24V (16/32 points),AC110/220 Input, Relay,TR(16/32 points), Analog Input(4,8Ch), Analog Output(2,4Ch), RTD Input(4Ch), TC Input(4Ch), HSC(1,2,4CH),Position Control(2,4 Axes), CCU+/SCU communication and MWLink, Remote Slave, DeviceNet Slave unit can be used

4. **Range of I/O base options (up to 12 slot)**
   When configuring a system, PLC NX Series enables you to choose a backplane from 2, 3, 4, 5, 6, 8, 10, 12 slots

5. **High capacity programming and memory backup option**
   Program memory size is from 9.6k words (NX70-CPU70P1) up to 20k words (for NX70-CPU70P2). Built-in flash EEPROM retains all ladder logic

6. **Built-in PID capabilities**
   Supports 8-loop PID controls (Only for NX70-CPU70P2 unit)

7. **Built-in RTC (Real Time Clock)**
   Built-in real time clock supports programming by time and date. (Only for NX70-CPU70P2 unit)

8. **Built-in RS 232C and RS 485, 2port (NX70-CPU70p2 unit)**
   Two communication channels for simple connectivity to computers, operator interface, modem and other controllers to exchange large volumes of data with high speed. COM2 port supports user defined communications to connect you to barcode readers, Ac drive, modbus slave, or servos. (Binary communications available)

9. **Superior diagnostics**
   Self-diagnostics to minimize system errors and to maximize diagnostic efficiency

10. **WinGPC programming software**
    WinGPC programming software lets you create, modify and monitor CPU, forced I/O, I/O configuration. It is a powerful, easy-to-use tool for program upload/download

NX70 Series
Small Logic Controller

System Configuration

Processor Unit
· NX70-CPU70p1 9.6k words 1 Comm. port
· NX70-CPU70p2 20k words 2 Comm. ports

Discrete Unit
·16 Point Input (DC12/24V,DC24V,AC110V, AC220V)
·32 Point Input(DC12/24V, DC24V)
·8 Point Output(Relay)
·16 Point Output (Relay, Relay w/ZNR, TR Sync, SSR)
·32 Point Output(TR Sync, TR Source)
· In/Out Mixed (8In DC/8Out RY,16In DC/16Out TR Sync.)

Analog Unit
· 4, 8 channel A/D unit
· 2, 4 channel D/A unit
· 4 channel RTD unit
· 4 channel TC unit

Specialty Unit
· 1,2,4 channel HSC unit
· 4 channel Pulse output moduel
· 2,4 Axes Position Control unit
· SCU (Serial Communication unit)
· CCU (Computer Communication unit)
· Multi-Wire Link unit

Power Supply Unit
· AC Type 1) NX70-POWER1 (110/220V input, free voltage) 3.5A at 5V, 0.3A at 24V 2) NX70-POWER2 (110/220V input, free voltage) 4.0A at 5V
· DC Type 1) NX70-PWRDC (24V dc input) 4.0A at 5V

* I/O Backplane
· 2 I/O slot type
· 3 I/O slot type
· 4 I/O slot type
· 5 I/O slot type
· 6 I/O slot type
· 8 I/O slot type
· 10 I/O slot type
· 12 I/O slot type

NX70 Processor Specifications

Item	NX70-CPU70P1	NX70-CPU70P2
Processing Speed	0.2 us / Step (Basic)	
Programming	Ladder	
Program Memory	9.6 K words	20 K words
Data Memory	2K words	4K words
Memory Back Up	SRAM with Battery (Progam & Data)	
Max. I/O Points	384 points	
Max. I/O Units	12 units	
Communication Port	1	2
COM1	RS232C/485 with DSUB 9Pin Connector	
COM2	N/A	RS232C/485 with DSUB 9Pin Connector
Modbus Slave Communication	N/A	Yes
User Defined Communication	N/A	Yes
Real Time Clock	N/A	Built in
Additional Program Back-up	Built in Flash Memory	

NX700 Series
Compact Logic Controller

NX700 is a medium-small sized PLC product intended to provide diverse units, including such as functions as high speed processing of user programs, and manual and network units for more efficient response to the control environments.

- Control Point is up to 1600 point high speed processing, for optimal control in the medium scaled control environments
- High-speed, large capacity data exchange by direct interface with TOUCH PANNEL is enabled by embedding 2 channel communication port.
- By adopting the diverse I/O units and removable terminal blocks, maintenance/repair and design was made easier.

Features of NX700

1. **Correction of program during RUN**
   Program corrections can be done during CPU operation without having to stop the system.

2. **Embedded PID Processor**
   PID 8 control Logic is embedded so that application of manual control environments such as temperature/RUN control is made exceedingly easy.

3. **Embedded clock (RTC : Real Time Clock) function**
   Work process is programmable by hour and day with the embedded clock.

4. **Sufficient program capacity/ back-up function**
   Up to max 20K of words and programs can be stored for perpetuity by providing ROM Pack unit with FLASH back-up method.

5. **Self Diagnosis Function**
   Equipped with convenient system error and mal-function detection with self-diagnosis functions.

6. **Diverse I/O and basic special unit support**
   DC24V I/P(16/32/64 points), AC110V I/P, AC220V I/P, Relay O/P, TR O/P(16points/32/64points),SSR O/P, A/D, D/A, RTD, TC, High Speed Counter (1CH, 2CH), CCU+(Comm. leased), SCU(Data Processing Device) can be used.

7. **Diverse Peripheral Device**
   Equipped with leased graphic software (WinGPC S/W) for CPU control, checking the CPU status and forced I/O, as well as I/O monitoring and program download/upload can be done conveniently.

8. **Diverse Communication Function**
   By providing 2 high speed communication ports, linking computers and peripheral devices without separate units became easier. Also, COM2 port supports user-defined communications mode so that the bar code reader, Ac drive and servo can be linked and controlled by external communications. (Binary communication available)

NX700 Series
Compact Logic Controller

System Configuration

CPU Unit
· NX-CPU700p 20k Step, 0.2 μs Communication Port 2port Use WinGPC S/W

Special Unit

· A/D, D/A, RTD, TC
· CCU, SCU unit
· Positioning (1, 2, 3, 4 axis)
  (Open Collector & LineDrive)
· High Speed Counter (1/ 2CH)
· High Performance High
  Speed Counter (4CH)
· Pulse Output unit (4CH)
· Remote I/O SYSTEM
· MW-LINK SYSTEM
· EtherNet SYSTEM
· DeviceNet SYSTEM

I/O unit
· 16 point type · 32 point type · 64 point type

Peripheral Device
· Computer Software   - WinGPC S/W · Computer Interface Cable

Motherboard
· 3-slot type · 5-slot type · 8-slot type · 10-slot type · 12-slot type

※ Combined use for Basic/ Additional setup

Power Supply Unit

· AC Type
  1)NX-POWER (AC110/220V)
    5V 4A, 24V 0.5A
  2)NX-PWR220 (AC220V Only)
    5V 6A
· DC Type
  1)NX-PWRDC (DC24V)5V 5A

※ Display of slot numbers indicates the number of I/O and special units mounted
※ CPU unit is not necessary when motherboard is used for extension purpose and thus one more slot can be used additionally

NX700 CPU Specification

CPU Type		NX-CPU700p
Control Method		Program storing, repetitive operation method
External I/O		1,600 points (2,048 points when Remote I/O is used)
Commands	Basic Command	28 kinds
	Appl. Command	150 kinds
Processing Speed	Basic Command	0.2us/step
	Appl. Command	0.4~ tens of us/step
Program Capacity		20K words
Capacity of Data Memory	I/O Interface (R)	R0.0 ~ R127.15 (2048 points, 128 words)
	Link Interface (L)	L0.0 ~ L63.15 (1024 points, 64 words)
	Internal Interface(M)	M0.0 ~ M127.15 (2048 points, 128 words) However, M0.0~ M63.15 can be used as Link Interface
	Electrostatic maintenance Interface (K)	K0.0 ~ K127.15 (2048 points, 128 words)
	Special Interface (F)	F0.0 ~ F15.15 (256 points)
	Timer/ Counter Interface(TC or TIM)	256 channel (timer+counter), set value: 0 ~65535 ·Timer: 0.01sec.: CH000 ~ CH063 (64 Ch.), 0.1sec.: CH064 ~ CH255 (192Ch.) ·Counter: CH000 ~ CH255 (256 Ch.)
	Data Register (W)	W0000 ~ W2047, W3072 ~ W5119 (4096 words)
	Special Reg.(W,SR)	W2560(=SR000)~W3071(=SR511) (512 words)
Clock Function (RTC)		Built in(year, month, day, hour, minute, second, week)
Communication Function	COM1	RS232C/ RS485, 9600/ 19200/ 38400 bps
	COM2	RS232C/ RS485, 4800/9600/19200/38400 bps Supports user defined com. Method (bar code, AC Drive, Servo driver can be linked with communication) Supports binary communication
Program Back Up		SRAM with Battery, and Built-In Flash Memory

NX7R/NX7s/NX7 Series Product List

Type	Catalog number	Descriptions
NX7R Basic	NX7R-28ADR	NX7R, 28Points,(AC power, DC12~24V Input 16P, Relay Output 12P)
	NX7R-28ADT	NX7R, 28Points,(AC power, DC12~24V Input 16P, TR Out 12P(NPN, Sink))
	NX7R-48ADR	NX7R, 48Points,(AC power, DC12~24V Input 28P, Relay Output 20P)
	NX7R-48ADT	NX7R, 48Points,(AC power, DC12~24V Input 28P, TR Out 20P(NPN, Sink))
	NX7R-20ADR-4A	NX7R, Analog Combo,(ACPower, DC 12P, RY 8P, Analog In 4Ch, 12bit)
	NX7R-20ADR-6A	NX7R, Analog Combo,(ACPower, DC 12P, RY 8P, A/I 4Ch, A/O 2Ch, 12bit)
	NX7R_MEMORY	NX7R, 128K Word Backup Memory
NX7s Basic	NX7s_10ADR	NX7s, 10Points (AC power, DC12~24V Input 6P, Relay Output 4P)
	NX7s_10ADT	NX7s, 10Points (AC power, DC12~24V Input 6P, TR Out 4P(NPN, Sink))
	NX7s_10DDR	NX7s, 10Points (DC24V power, DC12~24V Input 6P, Relay Output 4P)
	NX7s_10DDT	NX7s, 10Points (DC24V power, DC12~24V Input 6P, TR Out 4P(NPN, Sink))
	NX7s_14ADR	NX7s, 14Points (AC power, DC12~24V Input 8P, Relay Output 6P)
	NX7s_14ADT	NX7s, 14Points (AC power, DC12~24V Input 8P, TR Out 6P(NPN, Sink))
	NX7s_14DDR	NX7s, 14Points (DC24V power, DC12~24V Input 8P, Relay Output 6P)
	NX7s_14DDT	NX7s, 14Points (DC24V power, DC12~24V Input 8P, TR Out 6P(NPN, Sink))
	NX7s_20ADR	NX7s, 20Points (AC power, DC12~24V Input 12P, Relay Output 8P)
	NX7s_20ADT	NX7s, 20Points (AC power, DC12~24V Input 12P, TR Out 8P(NPN, Sink))
	NX7s_28ADR	NX7s, 28Points (AC power, DC12~24V Input 16P, Relay Output 12P)
	NX7s_28ADT	NX7s, 28Points (AC power, DC12~24V Input 16P, TR Out 12P(NPN, Sink))
	NX7s_40ADR	NX7s, 40Points (AC power, DC12~24V Input 24P, Relay Output 16P)
	NX7s_40ADT	NX7s, 40Points (AC power, DC12~24V Input 24P, TR Out 16P(NPN, Sink))
	NX7s_48ADR	NX7s, 48Points (AC power, DC12~24V Input 28P, Relay Output 20P)
	NX7s_48ADT	NX7s, 48Points (AC power, DC12~24V Input 28P, TR Out 20P(NPN, Sink))
NX7 Basic	NX7_28ADR	NX7, 28Points (AC power, DC12~24V Input 16P, Relay Output 12P)
	NX7_28ADT	NX7, 28Points (AC power, DC12~24V Input 16P, TR Out 12P(NPN, Sink))
	NX7_28DDR	NX7, 28Points (DC24V power, DC12~24V Input 16P, Relay Output 12P)
	NX7_28DDT	NX7, 28Points (DC24V power, DC12~24V Input 16P, TR Out 12P(NPN, Sink))
	NX7_48ADR	NX7, 48Points (AC power, DC12~24V Input 28P, Relay Output 20P)
	NX7_48ADT	NX7, 48Points (AC power, DC12~24V Input 28P, TR Out 20P(NPN, Sink))
	NX7_48DDR	NX7, 48Points (DC24V power, DC12~24V Input 28P, Relay Output 20P)
	NX7_48DDT	NX7, 48Points (DC24V power, DC12~24V Input 28P, TR Out 20P(NPN, Sink))
	NX7_20ADR_4A	NX7, Analog Combo (ACPower, DC 12P, RY 8P, Analog In 4Ch, 12bit)
	NX7_20ADT_4A	NX7, Analog Combo (ACPower, DC 12P, TR 8P, Analog In 4Ch, 12bit)
	NX7_20ADR_6A	NX7, Analog Combo (ACPower, DC 12P, RY 8P, A/I 4Ch, A/O 2Ch, 12bit)
	NX7_20ADT_6A	NX7, Analog Combo (ACPower, DC 12P, TR 8P, A/I 4Ch, A/O 2Ch, 12bit)
NX7 Expansion	NX7_14EDR	NX7, 14P Expansion (DC24V power, DC12~24V In 8P, Relay Out 6P)
	NX7_14EDT	NX7, 14P Expansion (DC12~24V Input 8P, TR Out 6P)
	NX7_28EDR	NX7, 28P Expansion (DC24V power, DC12~24V In 16P, Relay Out 12P)
	NX7_28EDT	NX7, 28P Expansion (DC12~24V Input 16P, TR Out 12P)

Peripheral of NX Series Product List

Type	Catalog number	Descriptions
NX Cable & Option	ADAPTER_1	RS232C <--> RS485 Adapter (Signal converter)
	NX_CBLCPU02	NX PLC(D-Sub 9p) - PC communication Cable, 2m, RS232C/485
	NX_CBLCPU05	NX PLC(D-Sub 9p) - PC communication Cable, 5m, RS232C/485
	NX_CBLDC	40Pin Connector type I/O Cable, 1.5m, for DC input 32p/64p.
	NX_CBLTR	40Pin Connector type I/O Cable, 1.5m, for TR Output 32p/64p.
	NX_CBLRY	40Pin Connector type I/O Cable, 1.5m, for Relay Output 32p
	NX_CBLRY20	20Pin Connector type I/O Cable, 1.5m, for Relay Output 32p
	NX70_CBLDC	20Pin Connector type I/O Cable, 1.5m, for NX70 DC input 32p.
	NX70_CBLTR	20Pin Connector type I/O Cable, 1.5m, for NX70 TR Output 32p.
	NX_PIN20	20Pin Connector type I/O Connector,
	NX_PIN40	40Pin Connector type I/O Connector,
	NX_BAT	Battery-ASS'Y, for NX Series

NX70 Series Product List

| Type	Catalog number	Descriptions
CPU	NX70_CPU70p1	NX70 plus CPU, 0.2us, 9.6KW, RS232C/485 1port
	NX70_CPU70p2	NX70 plus CPU, 0.2us, 20KW, RS232C/485 2Port, RTC
Power	NX70_POWER1	Power Supply, AC100~220V Input, Out: 5V 3.5A, 24V 0.3A
	NX70_POWER2	Power Supply, AC100~220V Input, Out: 5V 4.0A,
	NX70_PWRDC	Power Supply, DC24V Input, Out: 5V 4.0A
Base	NX70_BASE02	NX70 Base(Rack), Power, CPU, I/O 2 Slots
	NX70_BASE03	NX70 Base(Rack), Power, CPU, I/O 3 Slots
	NX70_BASE04	NX70 Base(Rack), Power, CPU, I/O 4 Slots
	NX70_BASE05	NX70 Base(Rack), Power, CPU, I/O 5 Slots
	NX70_BASE06	NX70 Base(Rack), Power, CPU, I/O 6 Slots
	NX70_BASE08	NX70 Base(Rack), Power, CPU, I/O 8 Slots
	NX70_BASE10	NX70 Base(Rack), Power, CPU, I/O 10 Slots
	NX70_BASE12	NX70 Base(Rack), Power, CPU, I/O 12 Slots
Input	NX70_X16D	DC12~24V Input Unit, 16Points, Terminal,
	NX70_X16D1	DC24V Input Unit, 16Points, Terminal,
	NX70_X32D	DC12~24V Input Unit, 32Points(20Pin Connector X 2)
	NX70_X32D1	DC24V Input Unit, 32Points(20Pin Connector X 2)
	NX70_X16A110	AC110V Input Unit, 16Points, Terminal,
	NX70_X16A220	AC220V Input Unit, 16Points, Terminal,
I/O Combo	NX70_XY16	I/O Mix 16p Unit, DC12~24V Input 8p/ Relay Output 8p
	NX70_XY32	I/O Mix 32p Unit, DC12~24V Input 16p/ TR Output 16p(20Pin X 2)
Output	NX70_Y8R	Relay Output Unit, 8Points(Included ZNR), 3A/Point
	NX70_Y16R	Relay Output Unit, 16Points, 1A/Point
	NX70_Y16RV	Relay Output Unit, 16Points(Included ZNR), 1A/Point
	NX70_Y16T	TR Output (Sync, NPN) Unit, 16Points, 0.6A/Point
	NX70_Y32T	TR Output (Sync,NPN) Unit, 32Points, 0.4A/Point (20pin x 2)
	NX70_Y32P	TR Output (Source,PNP) Unit, 32Points, 0.4A/Point (20pin x 2)
	NX70_Y16SSR	AC(SSR) (100~220V)Output Unit, 16Points, 0.5A/point
	NX70_DUMMY	Dummy Unit (Blank Cover)
Analog	NX70_AI8V	8Ch, Analog Voltage Input Unit, ±10V, ±5V, 16bit A/D
	NX70_AI8C	8Ch, Analog Current Input Unit, 0~20mA, 4~20mA, 16bit A/D
	NX70_AI4V	4Ch, Analog Voltage Input Unit, ±10V, ±5V, 16bit A/D
	NX70_AI4C	4Ch, Analog Current Input Unit, 0~20mA, 4~20mA, 16bit A/D
	NX70_AO2V	2Ch, Analog Voltage Output Unit, ±10V, ±5V, 14bit D/A
	NX70_AO2C	2Ch, Analog Current Output Unit, 0~20mA, 4~20mA, 14bit D/A
	NX70_AO4V	4Ch, Analog Voltage Output Unit, ±10V, ±5V, 14bit D/A
	NX70_AO4C	4Ch, Analog Current Output Unit, 0~20mA, 4~20mA, 14bit D/A
	NX70_RTD4	4Ch, RTD Input Unit, 24bit A/D, 0.1°C, 0.1°F,
	NX70_TC4	4Ch, Thermocouple Input Unit, 24bit A/D, 0.1°C, 0.1°F,
Motion	NX70_HSC1	1Ch, Highspeed Counter, 100Kcps, 24bit, OC, 5V/24V In.
	NX70_HSC2	2Ch, Highspeed Counter, 100Kcps, 24bit, OC, 5~24V In.
	NX70_HSC4	4Ch, Highspeed Counter, 200Kcps, 32bit, OC, 24V In.
	NX70_PULSE4	4Ch, Pulse Control Unit (HSC 4Ch/200K, Pulse 4Ch/100K), OC,
	NX70_POSI2	2Axis, Position Control Unit, 1Mpps, LD, OC,
	NX70_POSI4	4Axis, Position Control Unit, 1Mpps, LD, OC,
Communication	NX70_CCU+	1Ch(Port), CCU+(Extension CPU Port, NX protocol) Unit, RS-232C/485
	NX70_SCU	2Ch(Port), Serial Comm. Unit (Master Func.) RS-232C/485 2Ports.
	NX70_MWLINK	Multi Wire-LINK Unit, CPU-CPU Link Network, 0.5M, 800m, 16St.
	NX70_ETHERNET	EtherNet Unit, 10/100Mbps auto negociation, Total 8 Connections,TCP/IP, UDP/IP
	NX70_DNS	DeviceNet Slave Unit.

NX700 Series Product List

Type	Catalog number	Descriptions
CPU	NX_CPU700P	NX700P CPU UNIT, 20KW, 0.2uS, 2 serial Port, Modbus-RTU, PID, UDP, Real time clock,
Power	NX_POWER	NX700 POWER, AC100~220V Input, 5V 4A, 24V 0.5A Output
	NX_PWR220	NX700 POWER, AC220V Input, 5V 6A Output
	NX_PWRDC	NX700 POWER, DC24V Input, 5V 5A Output.
Base	NX_BASE03	NX700 Base, Power slot, CPU slot, I/O 3 Slots, Basic or Extension Units (I/O 4 Slots for Extension)
	NX_BASE05	NX700 Base, Power slot, CPU slot, I/O 5 Slots, Basic or Extension Units (I/O 6 Slots for Extension)
	NX_BASE08	NX700 Base, Power slot, CPU slot, I/O 8 Slots, Basic or Extension Units (I/O 9 Slots for Extension)
	NX_BASE10	NX700 Base, Power slot, CPU slot, I/O 10 Slots, Basic or Extension Units (I/O 11 Slots for Extension)
	NX_BASE12	NX700 Base, Power slot, CPU slot, I/O 12 Slots, Basic or Extension Units (I/O 13 Slots for Extension)
Input	NX_X16D	DC12~24V Input Module, 16points, Removable Terminal Type.
	NX_X16D1	Only DC24V Input Module, 16points, Removable Terminal Type.
	NX_X32D	DC12~24V Input Module, 32p, Connector (40pin x 1)
	NX_X64D	DC12~24V Input Module, 64p, Connector (40pin x 2)
	NX_X16A110	AC110V Input Module, 16points, Terminal
	NX_X16A220	AC220V Input Module, 16points, Terminal
Output	NX_Y16R	Relay Output(AC250V 2A), 16points, Terminal
	NX_Y16RV	Relay Output(AC250V 2A), 16point, ZNR, Terminal
	NX_Y32R	Relay Output(AC250V 1A), 32p, Connector(20pin x 2)
	NX_Y32RV	Relay Output(AC250V 1A), 32p, ZNR, Connector(40pin x 1)
	NX_Y16T	TR Output(Sync. NPN), 16points, DC24V 0.6A, Terminal
	NX_Y32T	TR Output(Sync. NPN), 32p, DC24V 0.4A, Connector(40pin x 1)
	NX_Y64T	TR Output(Sync. NPN), 64p, DC24V 0.2A, Connector(40pin x 2)
	NX_Y16SSR	SSR(AC) Output(AC100~220V 0.5A), 16p, Terminal
	NX_DUMMY	Dummy Unit (Blank Cover)
Analog	NX_AI8V	Analog Input, 8Ch, Voltage(0~10V, 0~5V, ±10V, ±5V), 0.153mV(0.305mV) Resolution, 16bit A/D Conv. ±0.2%/F.S(25°C), 1.25ms/Ch, Bus Power 370mA/5V. Removable Terminal Type.
	NX_AI8C	Analog Input, 8Ch, Current(0~20mA, 4~20mA, ±20mA), 0.519uA(0.61uA) Resolution, 16bit A/D Conv. ±0.3%/F.S(25°C), 1.25ms/Ch, Bus Power 380mA/5V. Removable Terminal Type.
	NX_AO8V	Analog Output, 8Ch, Voltage(0~10V, 0~5V, ±10V, ±5V), 0.6mV(1mV) Resolution, 14bit D/A Conv. ±0.2%/F.S(25°C), 2.5ms/Ch, Bus Power 420mA/5V. Removable Terminal Type.
	NX_AO8C	Analog Output, 8Ch, Current(0~20mA, 4~20mA), 1.2uA(2uA) Resolution,14bit D/A Conv. ±0.4%/F.S(25°C), 2.5ms/Ch, Bus Power 1.0A/5V. Removable Terminal Type.
	NX_AO4V	Analog Output, 4Ch, Voltage(0~10V, 0~5V, ±10V, ±5V), 0.6mV(1mV) Resolution, 14bit D/A Conv. ±0.2%/F.S(25°C, 2.5ms/Ch, Bus Power 380mA/5V. Removable Terminal Type.
	NX_AO4C	Analog Output, 4Ch, Current(0~20mA, 4~20mA), 1.2uA(2uA) Resolution,14bit D/A Conv. ±0.4%/F.S(25°C), 2.5ms/Ch, Bus Power 680mA/5V. Removable Terminal Type.
	NX_RTD8	RTD Input(3 wire), 8Ch, 24bit A/D Conv. Pt100, Pt200/500/1000, JPt100, JPt200/500/1000, 300/600/2000Ω 0.1°C, 0.1°F Resolution, ±0.1%/F.S(25°C) 60ms/Ch, Bus Power 340mA/5V. Removable Terminal Type.
	NX_RTD4	RTD Input(3 wire), 4Ch, 24bit A/D Conv. Pt100, Pt200/500/1000, JPt100, JPt200/500/1000, 300/600/2000Ω 0.1°C, 0.1°F Resolution, ±0.1%/F.S(25°C) 60ms/Ch, Bus Power 340mA/5V. Removable Terminal Type.

NX700 Series Product List

Type	Catalog number	Descriptions
Analog	NX_TC8	Thermocouple Input, 8Ch, 24bit A/D Conv. Type B/R/S/N/K/E/J/T/L/U/C/D 60ms/Ch, Bus Power 340mA/5V. Removable Terminal Type.
	NX_TC4	Thermocouple Input, 4Ch, 24bit A/D Conv. Type B/R/S/N/K/E/J/T/L/U/C/D 60ms/Ch, Bus Power 340mA/5V. Removable Terminal Type.
Motion	NX_HSC1	HighSpeed Counter Unit, 1Ch, 24Bit, 100Kcps/OC. 5~24VDC Input, Encode/Pules-Direction/CW/CCW, 1/4 Multiply by encode mode, Removable Terminal Type.
	NX_HSC2	HighSpeed Counter Unit, 2Ch, 24Bit, 100Kcps/OC. 5~24VDC Input, Encode/Pules-Direction/CW/CCW, 1/4 Multiply by encode mode, Removable Terminal Type.
	NX_HSC4	HighSpeed Counter Unit, 4Ch, 32Bit, 200Kcps/OC. 24VDC Input, Encode/Pules-Direction/CW/CCW, 1/2/4 Multiply by encode mode, 40pin Connector Type.
	NX_PULSE4	Pulse Out 4Ch, Pulse mode/100kHz, PWM/40KHz, HSC Input 4Ch, 200Kcps/OC, 32Bit, Pules-Direction/CW,CCW, HSC 24VDC, 1/2/4 Multiply by encode mode, 40pin Connector Type.
	NX_POSI1	Position Unit, 1Axis, 2Mpps(Rev.B), Acc/Deceleration, MPG Input, 2Mpps/Line Drive Output (200Kpps/OC output), Linear/Circular Interpolation(Revision B)
	NX_POSI2	Position Unit, 2Axis, 2Mpps(Rev.B), Acc/Deceleration, MPG Input, 2Mpps/Line Drive Output (200Kpps/OC output), Linear/Circular Interpolation(Revision B)
	NX_POSI3	Position Unit, 3Axis, 2Mpps(Rev.B), Acc/Deceleration, MPG Input, 2Mpps/Line Drive Output (200Kpps/OC output), Linear/Circular Interpolation(Revision B)
	NX_POSI4	Position Unit, 4Axis, 2Mpps(Rev.B), Acc/Deceleration, MPG Input, 2Mpps/Line Drive Output (200Kpps/OC output), Linear/Circular Interpolation(Revision B)
Communication	NX_CCU+	CCU+(Computer Comm. Unit), RS-232C/485 1Port. NX plus protocol
	NX_SCU	SCU(Serial Comm. Unit), RS232C/485 2Port. User Define protocol
	NX_MWLINK	Multi Wire-LINK Unit, CPU-CPU Link Network, 16 Station, 2 loop, 0.5Mbps, 800m,
	NX_Device	DeviceNet Master(Scanner) Module
	NX_ETHERNET	EtherNet Unit, 10/100Mbps auto negociation, Total 8 Connections,TCP/IP, UDP/IP
Extension Cable	NX_EXPCBL08	NX700 Base Extension Cable, 0.8m
	NX_EXPCBL15	NX700 Base Extension Cable, 1.5m

WinGPC 4 Software
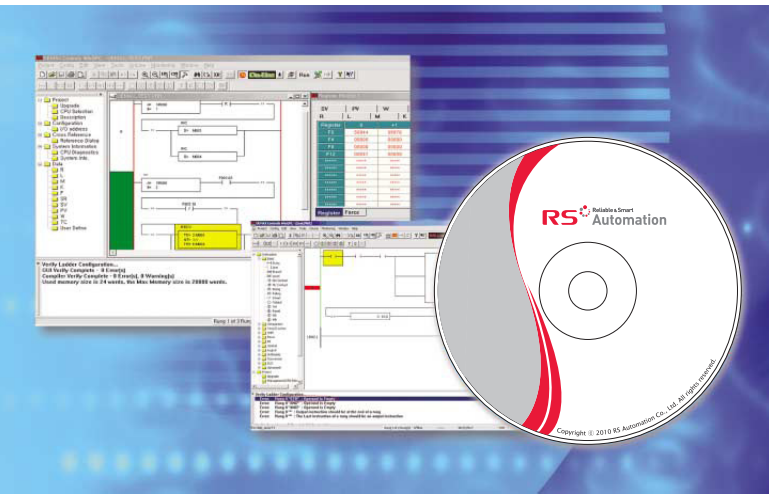
Instead of reading through user manual, just click!

OEMax knows what exactly users need. WinGPC 4 enables customers to enjoy user friendly programming and simple, direct operation with standard MS Windows operation.

Fast, easy debugging and monitoring are what successful PLC engineers need.

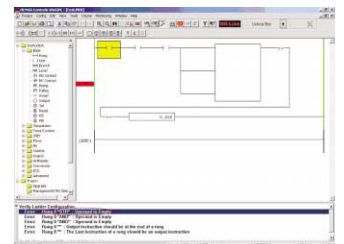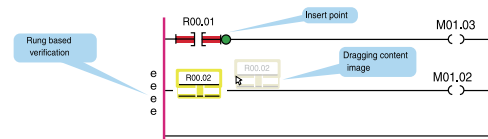**You can get all of function you need from WinGPC 4.x.**

- Reduce your programming time by using Standard Windows style Drag & Drop, Cut / Copy / Paste operations.
- Support for multiple programming and monitoring windows reduces debugging time.
- Correct mistakes quickly by using the unlimited Undo/Redo function.
- Continuous Zoom In/Out with automatic resizing makes viewing your program easier.
- Reduce training costs and simplify your life. WinGPC supports all NX PLCs from the low cost NX7S to the modular NX70 platform.
- "WinGPC is free to download with no user registration or serial numbers. Installation is quick and easy."
- WinGPC package has free OPC server software named WinOPC. Feel free to connect HMI software with WinOPC.

Major Benefits of WinGPC4.0 Ladder Editor New Features

Focus on the state-of-the-art PLC ladder editor style and productivity, the WinGPC4.0 Ladder Editor is developed to have more user-friendly interface, and it is easier to learn and operate.

The new features are:

1. **More convenient in ladder configuration:** easy to add ladder element, no need to draw rung and branch wire by wire.

2. **Simplified drag & drop operation** easier for configuration and modification, support Ctrl and SHIFT combination while dragging.

3. **Unlimited Undo/Redo operations**

4. **Supports F1 ~ F12 function keys and shortcuts for keyboard user**

5. **Full Windows Cut/Copy/Paste support**

6. **Long rungs wrap automatically:** easier for logic configuration and modification.

7. **Smart error positioning** double click the error information in Output Window to have cursor jump to the error location.

8. **Continuous Zoom function:** zoom in and zoom out functions provide different view scale.