

**- CPU 306 EX -**

Performance Indexes	CPU306EX	
	K306EX-14AT	K306EX-24AR
CPU	16-bit industrial	
Program Execution Time	Typical Bool instruction time: <0.5 mS Word operation time: <48mS Arithmetic operation time for integers: <65mS Arithmetic operation time for floating points: <150mS	
DI Points	14 DC24V	
DO Points	10 DC24V	10 relay
Application Memory	FRAM, 32KB/about 4,000 steps	
Program Backup	Permanent storage, without the need of battery	
Memory Area	Variable storage area (V area): 4KB System storage area (SM area): 300 bytes Internal storage area (M area): 32 bytes	
Data Retention Characteristic	Configure with the programming software: V area, C (counter) area	
Retention Mode and Period	Adopt super capacitors and support a retention period of not less than 144 hours upon power failure under normal temperature.	
Data Backup Characteristic	Perform backup operations VB3648~VB3902 according to user instructions, 255 bytes in total	
Backup Mode and Time	FRAM, 255 bytes in total (writing operation for 10 billion times), permanent backup	
Floating Points	Supported; the whole V area can be used for floating points	
Programming Language Supported	Ladder Drawing (LD), Instruction List (IL)	
Instruction Set	Basic instructions: 114; expansion instructions: 420	
Password Protection	Yes	
Max. I/O	Digital data: 280 in total (256 DI and 256 DO respectively); Analog data: 64 in total (32AI and 16 AO respectively)	
Counter	256	
Operation Mode of Counter	Addition, subtraction	
Counter Range	-32768~32767	
	Yes	

Counting Value Retention Function	
Timer	256 1 ms time base: 4 1 ms time base: 16 100 ms time base: 236
High-speed Counter	6 high-speed counters where, single-phase counters: 6, with a maximum frequency of 30 KHz where, dual-phase counters: 4, with a maximum frequency of 20 KHz
Pulse Output	2, PTO (Pulse Train Output)/PWM (Pulse Width Modulation output); Maximum output frequency: 20 KHz
Analog Potentiometer	2, 10-bit resolution, values corresponding to internal registers
Interruption Function	Timing interruption: 2, 100ms resolution; Timer interruption: T2/T3, 1ms resolution; Edge interruption: 4, rising edge or falling edge optional; High-speed interruption, communication interruption
Real-time Clock	Yes, with an error not greater than 2 minutes/month under a temperature of 25°C The user can use the software to set/read: year, month, day, hour, minute, second, week. Adopt super capacitors and support a retention period of not less than 144 hours upon power failure under normal temperature.
Number of Connectable Expansion Modules	15; regardless of types
COM Port	2, RS232 or RS485; Supported working modes: Programming, Modbus-RTU (master/slave), Free protocol
Equipment Connected with COM Port	RS232/RS485: PC (for programming), third-party HMI panel, third-party serial communication equipment (for example, instruments, bar code reader, etc.)
Input Power Supply	AC85~265V
Sensor Load Power Supply	DC24V, max. 500 mA
Dimensions (L*W*H)	125´114´70

**- CPU 306 -**

Performance Indexes	CPU306			
	K306-24DT	K306-24AT	K306-24DR	K306-24AR
CPU	16-bit industrial			
Program Execution Time	Typical Bool instruction time: <0.5 mS Word operation time: <48mS Arithmetic operation time for integers: <65mS Arithmetic operation time for floating points: <150mS			
	14´DC24V			



Pulse Output	2, PTO (Pulse Train Output)/PWM (Pulse Width Modulation output); Maximum output frequency: 20 KHz		
Analog Potentiometer	2, 10-bit resolution, values corresponding to internal registers		
Interruption Function	Timing interruption: 2, 100ms resolution; Timer interruption: T2/T3, 1ms resolution; Edge interruption: 4, rising edge or falling edge optional; High-speed interruption, communication interruption		
Real-time Clock	Yes, with an error not greater than 2 minutes/month under a temperature of 25°C The user can use the software to set/read: year, month, day, hour, minute, second, week. Standby batteries are used to supply power for the real-time clock upon power failure. Under normal temperature, the accumulative retention period of the real-time clock upon power failure is up to 50,000 hours.		
Number of Connectable Expansion Modules	4; regardless of types		
COM Port	1, RS232 or RS485; Supported working modes: Programming, Modbus-RTU (master/slave), Free protocol		
Equipment Connected with COM Port	RS232/RS485: PC (for programming), third-party HMI panel, third-party serial communication equipment (for example, instruments, bar code reader, etc.)		
Input Power Supply	DC24V+/-20%	AC85~265V	DC24V+/-20%
Sensor Load Power Supply	DC24V, max. 500 mA		
Dimensions (L*W*H)	125'114'70		

**- CPU 304 -**

CPU304			
Performance Indexes	CPU304		
	K304-14AT	K304-14AR	K304-14AX
CPU	16-bit industrial		
Program Execution Time	Typical Bool instruction time: <1mS Word operation time: <96mS Arithmetic operation time for integers: <130mS Arithmetic operation time for floating points: <300mS		
DI Points	8' DC24V		
DO Points	6' DC24V	6' relay	3' DC24V+3' relay
EEPROM, 8KB/about 1,000 instructions			

Application Memory	
Program Backup	Permanent storage, without the need of battery
Memory Area	Variable storage area (V area): 2KB System storage area (SM area): 300 bytes Internal storage area (M area): 32 bytes
Data Retention Characteristic	Configure with the programming software: V area, C (counter) area
Retention Mode and Period	Adopt super capacitors and support a retention period of not less than 144 hours upon power failure under normal temperature.
Data Backup Characteristic	Perform backup operations VB1648 ~ VB1775 according to user instructions, 128 bytes in total
Backup Mode and Time	EEPROM (writing operation for 1 million times) permanent backup
Floating Points	Supported; the whole V area can be used for floating points
Programming Language Supported	Ladder Drawing (LD), Instruction List (IL)
Instruction Set	Basic instructions: 55; expansion instructions: 251
Password Protection	Yes
Max. I/O	Digital data: 14 in total (DI8, DO6); Analog data: None
Counter	64
Operation Mode of Counter	Addition, subtraction
Counter Range	-32768~32767
Counting Value Retention Function	Yes
Timer	64 1 ms time base: 4 1 ms time base: 16 100 ms time base: 44
High-speed Counter	2 single/dual-phase high-speed counters Where, single-phase counter with a maximum frequency of 20KHz dual-phase counter with a maximum frequency of 10KHz
Pulse Output	2, PTO (Pulse Train Output)/PWM (Pulse Width Modulation output); Maximum output frequency: 20 KHz
Analog Potentiometer	-
Interruption Function	Timing interruption: 2, 100ms resolution; Timer interruption: T2/T3, 1ms resolution; Edge interruption: 4, rising edge or falling edge optional; High-speed interruption, communication interruption

Real-time Clock	-
Number of Connectable Expansion Modules	-
COM Port	1, RS232 or RS485; Supported working modes: Programming, Modbus-RTU (master/slave), Free protocol
Equipment Connected with COM Port	RS232/RS485: PC (for programming), third-party HMI panel, third-party serial communication equipment (for example, instruments, bar code reader, etc.)
Input Power Supply	AC85~265V
Sensor Load Power Supply	DC24V, max. 300 mA
Dimensions (L*W*H)	97´114´70

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