



Product Name: Motion Control CPU 226H

Order NO: CTS7 216-1AH33-\*\*\*\*

Specification: CPU226H, 24VDCpower supply, 14 DI×5VDC

Order Data

Order No	Specification		
	Differences		General Specification
CTS7 216-1AH33-0A24	14 DI×5VDC, no interpolation function	10DO(4 axis motion control output with pulse and direction in each axis and speed up to 200KHZ	24VDC power supply, 6 high-speed pulse counters (four A, B phase input) with speed up to 200KHZ  1 PPI, 2 Freeport, 24KB Program Memory (expandable to 72KB, 10KB Data Memory(expandable to 110KB)  External battery and memory card.
CTS7 216-1AH33-0B24	14 DI×24VDC, no interpolation function		
CTS7 216-1AH33-1A24	14 DI×5VDC, Integrated linear interpolation Circular interpolation function		
CTS7 216-1AH33-1B24	14 DI×24VDC, Integrated linear interpolation Circular interpolation function		

Physical features

Size(W*H*D)	137×80×62mm
power dissipation	9W

Storage features

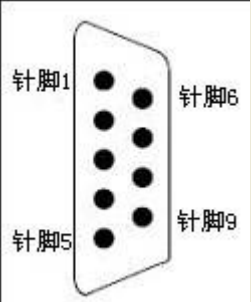
Program Memory	72KB, expandable to 72KB
Data Memory	110KB, expandable to 110KB
super capacitors	about 112 hours (typical)
External battery(optional)	about 200 days (typical)

<b>General features</b>	
Timers total	256
10ms	4
100ms	16
	236
Counters Total	256( backup by super capacitor)
Internal memory bits	256( backup by super capacitor)
Stored permanently on power down	112
Timer interrupts	2 with 1ms resolution
Edge interrupts	4 edge up and/or 4 edge down
Analog adjustments	2 with 8 bit resolution
Boolean execution speed	0.15μs
Float execution speed	8μs
clock	embedded
<b>Integrated communication function</b>	
Communication interface	3 communication ports, PORT0:PPI,RS485 PWL, FPORT0/FPORT1:Freeport RS485
PPI baud rates	9.6, 19.2 and 187.5k
Freeport baud rates	1.2kbaud to 115.2k
Maximum cable length per segment isolated repeater applied isolated repeater unapplied	When it is 1000 m, baud rate is 187.5k; when it is 1200 m, 38.4k. 50 m
Maximum number of stations	32 stations per segment,126 stations per network
Maximum number of masters	32
Point to point (PPI Mater Mode)	Yes(NWTR/NETW), 8 total, 2 reserved
<b>I/O Features</b>	
Number of integrated inputs	14
Input type	Sink/Source
Number of integrated outputs	10
Output type	Solid State----MOSFET, external load common anode connection

Digital I/O map area	256(128 input/128 output)
Analog I/O map area	64(32 input/32 output)
Maximum number of expandable I/O modules	7
Maximum number of digital I/O	230
Maximum number of analog I/O	56AI/28AO
Pulse catch inputs	14
Pulse output	4 axis×200KHz( do not support PLS output in the software package, co-trust software package is a must)
High-speed counters total Single phase counters two phase counters	6 6×200KHz 4×200KHz
<b>Digital quantity input features</b>	
Number of integrated input	14
input type	Sink/Source(IEC Type 1 sink)
rated voltage	24V DC ( B ) 、 5V DC ( A )
Maximum continuous permissible voltage	30V DC
surge voltage	35VDC , last 0.5s
Logical 1 Signal (minimum)	Above 16 VDC except I1.1,I1.5 Above 15 VDC I1.1,I1.5 )
Logical 0 Signal (Maximum )	Below 8 VDC (except I1.1,I1.5) Below 5 VDC (I1.1,I1.5 )
Isolation( field side and logical circuit) Isolation group	yes 500V AC, 1minitue refer to the Terminal Identification
Simultaneous Input	14
Maximum cable length shielded unshielded	500 m(ordinary standard input) 300 m(ordinary standard input)
<b>DO Features</b>	
Number of integrated digital output	10
output type	Solid state - MOSFET(source ) external load common anode connection

rated voltage	24V DC
output range of voltage	5Vto8.8 VDC
Logical 1 Signal (maximum) Logical 0 Signal (minimum)	0.5V Vcc minus 0.5 V
Maximum rated current of each point Maximum rated current of each common port leakage current (Max) Surge current (Max)	0.5A 4 A  10μA 8A, 100ms
Lamp load (Max)	3.5 W
On- state resistance	0.3 ohm typical (Max :0.6 ohm )
Isolation(field side to logical circuit) Optical isolation(Galvanic) Isolation groups	yes 500V AC, 1 minute refer to the Terminal Identification
Delay (Max) off to on/ on to off	0.2us(Q0.0~ Q0.7), 50us(Q1.0 和 Q1.1)
Pulse frequency(Max)	2 axis: 200KHz(Q0.0~Q0.3)、1 KHz(Q0.4~Q1.1) 4 axis: 200KHz(Q0.0~Q0.7)、1 KHz(Q0.4~Q1.1)
Simultaneous output	10
Parallel Output	No
Maximum cable length Shielded Unshielded	500 m(ordinary standard input) 150 m(ordinary standard input)

Definition of Communication Port

Connector	Pin	PORT0	FPORT0	FPORT1
	1	Shell ground	Shell ground	1: Shell ground
	2	Logical	Logical	2: RS485 Signal B/+
	3	RS485 Signal B	RS485 Signal B	3: RS485Signal A/-
	4	Send request	Send request	
	5	Logical	Logical	
	6	+5V, 100Ω	+5V, 100Ω	
	7	+24V	+24V	
	8	RS485 信号 Signal A	RS485 Signal A	

	9	Null	10 Agreement options (input)	
	Shell	Shell ground	Shell ground	

Available accessories
1. RS485 Program Cable, Order No: CTS7 191-RS485) 2. Encoder (differential input signal (Order No.: CTS7 291-EC001) 3. Programming Card (Order No.: CTS7 291-PC001) 4. Battery (Order NO.: CTS7 291-8BA33) 5. Memory Card (Order No.: CTS7 291-MC064/ CTS7 291-MC256)