PROFINET Technical Specifications

Items	Specifications	Items	Specifications		
Support protocol	PROFINET protocol	Physical layer	100BASE-TX		
Process data	RT: Mini. 1ms IRT: Mini. 500us	Number of slaves	The protocol supports up to 65535 (determined by PLC performance)		
Non-periodic data	Supports access to profile parameters and function code parameters	Configuration file	GSD file		
Duplex mode	Full duplex	Control mode	AC1 (speed control) AC3 (internal position control) AC4 (PLC internal position control + speed control) AC4 + DSC (dynamic servo control)		
Baud rate	100M bit/s	Media redundancy	Supported		

General specifications

Items		Specifications									
SV-X5ER 🗆 🗆 🗛		010	020	040	075	100	150	200	250		
Applicable motor		100W	200W	400W	750W	1KW	1.5KW	2KW	2.5KW		
Rated current (mA)		1.2	2	3	4.5	6	10	12.5	15.6		
Maximum output	Maximum output current (mA)		6	9	13.5	18	30	37.5	37.5		
Input Po	Input Power		Single-phase 200~240V 50/60Hz Singl					Single-/three-phase 200~240V 50/60Hz			
	W(mm) 35				52		80				
External dimensions	162			162		170					
	D(mm)		152			152		184			
Ambient ten	Ambient temperature		Operating temperature: 0 ~ 55 $^\circ \! C$, storage temperature: –20 ~ 65 $^\circ \! C$								
Ambient humidity		20 to 85%RH or less (no condensation) for operating and storage temperature									
Altitu	Altitude		Altitude 1000m or less								
Vibration		5.8m/S (0.6G) or less 10 to 60Hz (cannot be used continuously at resonance frequency)									
Digital	Digital I/O		5 inputs, 3 outputs								

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All information in this document is subject to change without notice Manual No. January, 2024 Issue No. 3 Due to the delay in updating the paper version, please refer to the official website for the latest product information

PROFINET is a new Ethernet communication system developed by Siemens and the PROFIBUS User Association;

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5 ER PROFINET Bus Servo

Meet the market demand for bus products









RT/IRT Matching

Much Richer and More Excluisite

$\frac{SV-X5}{1} \quad \frac{E}{2} \quad \frac{R}{3} \quad \frac{040}{4} \quad \frac{A}{5} - \frac{A}{6} \quad \frac{0}{7} - \frac{00}{8}$

1	Pr	oduct Seri	es		
2		Models			
Е		Standard	d type		
F		Full-functio	onal type		
3	С	ontrol Typ	e		
3 R	С	ontrol Typ PROFII			
	С				
R		PROFII	NET		

STO function

4	Drive power
010	100W
020	200W
040	400W
075	750W
100	1KW
150	1.5KW
200	2KW
250	2.5KW
300	3.0KW
500	5.0KW
600	6.0KW
750	7.5KW

5	Voltage type						
А	220V						
Т	380V						
6 C	ontrol power type						
А	AC power						
7 Version iteration							
0	By default						
8 Hardware Identification							
00	By default						

EMENS

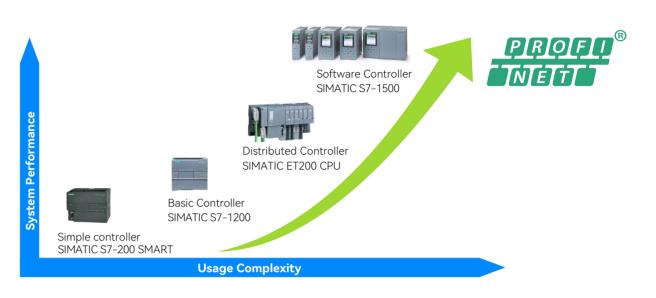
Adopt Siemens ERTEC200P dedicated chip solution

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- With a wider range of power and models to select
- With higher control accuracy, max. resolution can reach 23BIT
- Various message options can realize various control methods

Message	Standard	Standard	Standard	Standard	Standard	Standard	Siemens	Siemens	Siemens	Siemens	Siemens
	message1	message2	message3	message5	message7	message9	message102	message105	message110	message111	message750
Supported	٧	-	٧	٧	٧	٧	v	٧	-	v	۰

Support multiple PN bus control



Smaller synchronization period

Smaller synchronization cycle, the minimum synchronization cycle is 500us, to achieve precise servo process control



Richer and more exquisite servo motors

- 9 series of servo motors, more than 80 types of models, covering high, medium and low inertia
- Can match with X6 optical encoder motor to achieve 23-bit high-precision control and has higher positioning accuracy



Whether it is simple single-axis control or complex multi-axis synchronous motion control, the X5FR/ER series can perfectly adapt to Siemens PN bus PLCs such as S7-200 Smart, S7-1200, S7-1500 and Simotion.



