

S7-1500

Technical Data



Digital input modules				
	DI 16 x 24 V DC HF	DI 32 x 24 V DC HF	DI 16 x 24 V DC SRC BA	DI 16 x 230 V AC BA
Number of inputs	16	32	16	16
Isolation between channels	No	Yes	No	Yes
No. of potential groups	1	2	1	4
Rated input voltage	24 V DC	24 V DC	24 V DC	120/230 V AC
Diagnostic interrupt	Yes	Yes	No	No
Hardware interrupt	Yes	Yes	No	No
Isochronous mode supported	Yes	Yes	No	No
Input delay	0.05 ms to 20 ms	0.05 ms to 20 ms	3.2 ms	25 ms
Implementable				
• Centrally with S7-1500	Yes	Yes	Yes	Yes
• Distributed with ET 200MP	Yes	Yes	Yes	Yes
Order No. group: 6ES7	521-1BH0...	521-1BL0...	521-1BH5...	521-1FH0...

Digital output modules					
	DQ 16 x 24 V DC/ 0.5A ST	DQ 32 x 24 V DC/ 0.5A ST	DQ 8 x 24 V DC/ 2A HF	DQ 8 x 230 V AC/ 5A ST	DQ 8 x 230 V AC/ 2A ST
Number of outputs	16	32	8	8	8
Type	Transistor	Transistor	Transistor	Relay	Triac
Isolation between channels	Yes	Yes	Yes	Yes	Yes
No. of potential groups	2	4	2	8	8
Supply voltage to relay coils	–	–	–	24 V DC	–
Rated output voltage	24 V DC	24 V DC	24 V DC	230 V AC	230 V AC
Rated output current	0.5 A	0.5 A	2 A	5 A	2 A
Diagnostic interrupt	Yes	Yes	Yes	Yes	No
Hardware interrupt	No	No	No	No	No
Isochronous mode supported	Yes	Yes	No	No	No
Implementable					
• Centrally with S7-1500	Yes	Yes	Yes	Yes	Yes
• Distributed with ET 200MP	Yes	Yes	Yes	Yes	Yes
Order No. group: 6ES7	6ES7 522-1BH...	6ES7 522-1BL...	6ES7 522-1BF...	6ES7 522-5HF...	6ES7 522-5FF...

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Analog input modules		
	AI 8 x U/I/RTD/TC ST	AI 8 x U/I HS
Number of inputs	8	8
Resolution	16 bits including sign	16 bits including sign
Measurement type	Voltage, current, resistance, thermistor, thermocouple	voltage, current
Isolation between channels	No	No
Rated supply voltage	24 V DC	24 V DC
Maximum potential difference between inputs (ICM)	10 V DC	10 V DC
Diagnostic interrupt	Yes	Yes
Hardware interrupt	Yes	Yes
Isochronous mode supported	No	Yes
Conversion time	9 / 23 / 27 / 107 ms	125 µs
Implementable		
• Centrally with S7-1500	Yes	Yes
• Distributed with ET 200MP	Yes	Yes
Order No. group: 6ES7	6ES7 531-7KF...	6ES7 531-7NF...

Analog output modules		
	AQ 4 x U/I ST	AQ 8 x U/I HS
Number of outputs	4	8
Resolution	16 bits including sign	16 bits including sign
Output type	voltage, current	voltage, current
Isolation between channels	No	No
Rated supply voltage	24 V DC	24 V DC
Maximum potential difference between S and M _{ANA} (ICM)	8 V DC	8 V DC
Diagnostic interrupt	Yes	Yes
Hardware interrupt	No	No
Isochronous mode supported	No	Yes
Implementable		
• Centrally with S7-1500	Yes	Yes
• Distributed with ET 200MP	Yes	Yes
Order No. group: 6ES7	6ES7 532-5HD...	6ES7 532-5HF...

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