## SIEMENS

## Data sheet

## 6ES7521-1BP00-0AA0



SIMATIC S7-1500, digital input module, DI 64xDC 24V SNK/SRC BA, 64 channels in groups of 16, input delay typ. 3.2 ms, input type 3 (IEC 61131); sinking/sourcing input. 35 mm wide, cables and terminal blocks to be ordered separately as accessories

General information		
Product type designation	DI 64x24VDC BA	
HW functional status	From FS01	
Firmware version	V1.0.0	
<ul> <li>FW update possible</li> </ul>	Yes	
Product function		
• I&M data	Yes; I&M0 to I&M3	
<ul> <li>Isochronous mode</li> </ul>	No	
Prioritized startup	No	
Engineering with		
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V16 with HSP 0319 / V17	
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 / -	
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	V1.0 / V5.1	
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	V2.35 / -	
Operating mode		
• DI	Yes	
Counter	No	
Oversampling	No	
• MSI	Yes	
Supply voltage		
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
external protection for power supply lines (recommendation)	24 V DC/4 A miniature circuit breaker with type B or C tripping characteristic	
Power		
Power available from the backplane bus	0.6 W	
Power loss		
Power loss, typ.	4.8 W	
Digital inputs		
Number of digital inputs	64	
Digital inputs, parameterizable	No	
Source/sink input	Yes	
Input characteristic curve in accordance with IEC 61131, type 3	Yes	
Number of simultaneously controllable inputs		
Number of simultaneously controllable inputs	64; see additional description in the manual	
Input voltage		
Rated value (DC)	24 V	
● for signal "0"	-5 +5 V (reference potential is COM)	

• for signal "1"	-1130 V; +11 +30 V (reference potential is COM)
Input current	
• for signal "1", typ.	2.7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", min.	3 ms
— at "0" to "1", max.	4 ms
— at "1" to "0", min.	3 ms
— at "1" to "0", max.	4 ms
for interrupt inputs	4 1115
	No
— parameterizable	No
for technological functions	Na
— parameterizable	No
Cable length	4.000
• shielded, max.	1 000 m
<ul> <li>unshielded, max.</li> </ul>	600 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
<ul> <li>permissible quiescent current (2-wire sensor),</li> </ul>	1.5 mA
max.	
Interrupts/diagnostics/status information	
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnoses	
<ul> <li>Monitoring the supply voltage</li> </ul>	No
Wire-break	No
Short-circuit	No
Group error	No
Diagnostics indication LED	
RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
MAINT LED	No
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; via SIMATIC TOP connect connection module
<ul> <li>Channel status display</li> </ul>	Yes; via SIMATIC TOP connect connection module
<ul> <li>for channel diagnostics</li> </ul>	No
for module diagnostics	No
Potential separation	
Potential separation channels	
between the channels	No
<ul> <li>between the channels, in groups of</li> </ul>	16; 32 when using SIMATIC TOP connect connection module
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
	100
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
• vertical installation, min.	-30 °C
• vertical installation, max.	40 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
Dimensions	
Width	35 mm
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Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	250 g
Other	
Note:	Please order cable and connection modules separately
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