## Data sheet

## 6ES7522-1BH10-0AA0

SIMATIC S7-1500, DIGITAL OUTPUT MODULE, DQ 16 X 24VDC/0.5A; 16 CHANNELS IN GROUPS OF 8, 4 A PER GROUP; INCL. FRONT CONNECTOR PUSH-IN



General information	
Product type designation	DQ 16 x 24 V DC / 0.5 A BA
HW functional status	E01
Firmware version	V1.0.0
Product function	
● I&M data	Yes
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated as of version</li> </ul>	V13 / V13
<ul> <li>STEP 7 configurable/integrated as of version</li> </ul>	V5.5 SP3 / -
<ul> <li>PROFIBUS as of GSD version/GSD revision</li> </ul>	V1.0 / V5.1
<ul> <li>PROFINET as of GSD version/GSD revision</li> </ul>	V2.3 / -
Operating mode	
• MSO	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V

Reverse polarity protection	Yes; through internal protection with 7 A per group	
Input current		
Current consumption, max.	30 mA	
Power		
Power available from the backplane bus	1.15 W	
Power loss	0.0 W	
Power loss, typ.	2.2 W	
Digital outputs		
Number of digital outputs	16	
Current-sourcing	Yes	
Short-circuit protection	Yes	
<ul> <li>Response threshold, typ.</li> </ul>	1 A	
Limitation of inductive shutdown voltage to	L+ (-53 V)	
Controlling a digital input	Yes	
Switching capacity of the outputs		
<ul><li>with resistive load, max.</li></ul>	0.5 A	
• on lamp load, max.	5 W	
Load resistance range		
• lower limit	48 Ω	
• upper limit	12 kΩ	
Output voltage		
● for signal "1", min.	L+ (-0.8 V)	
Output current		
● for signal "1" rated value	0.5 A	
• for signal "1" permissible range, max.	0.5 A	
• for signal "0" residual current, max.	0.5 mA	
Output delay with resistive load		
• "0" to "1", max.	100 µs	
• "1" to "0", max.	500 μs	
Parallel switching of two outputs		
• for logic links	Yes	
for uprating	No	
for redundant control of a load	Yes	
Switching frequency		
with resistive load, max.	100 Hz	
with inductive load, max.	0.5 Hz; to IEC 947-5-1, DC-13	
• on lamp load, max.	10 Hz	
Total current of the outputs		
Current per channel, max.	0.5 A; see additional description in the manual	
Current per group, max.	4 A; see additional description in the manual	
	8 A; see additional description in the manual	
<ul> <li>Current per module, max.</li> </ul>	o A, see additional description in the maritial	

• shielded, max.	1 000 m
• unshielded, max.	600 m
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Interrupts/diagnostics/status information Substitute values connectable	No
Alarms	110
Diagnostic alarm	No
Diagnostic messages	
Diagnostics	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; Green LED
Channel status display	Yes; Green LED
Potential separation	
Potential separation channels	
• between the channels	No
<ul><li>between the channels, in groups of</li></ul>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation tested with	707 V DC (type test)
Decentralized operation	
Prioritized startup	Yes
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Dimensions Width	25 mm
Height	147 mm
Depth	129 mm
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Weights Weight approx	220 a
Weights Weight, approx.	230 g
Weight, approx. Other	
Weight, approx.	230 g  Supplied incl. 40-pole push-in front connectors