

Siemens
EcoTech

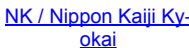


SIMATIC S7-1500, digital input module, DI 64xDC 24V SNK/SRC BA, 64 channels in groups of 16, input delay typ. 3.2 ms, input type 3 (IEC 61131); sinking/sourcing input. 35 mm wide, cables and terminal blocks to be ordered separately as accessories



General information	
Product type designation	DI 64x24VDC BA
HW functional status	From FS01
Firmware version	V1.0.0
• FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
• Isochronous mode	No
• Prioritized startup	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V16 with HSP 0319 / V17
• STEP 7 configurable/integrated from version	V5.5 SP3 / -
• PROFIBUS from GSD version/GSD revision	V1.0 / V5.1
• PROFINET from GSD version/GSD revision	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 consumption 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"	-11 ... -30 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	
— parameterizable	No
for technological functions	
— parameterizable	No
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Diagnostics function	No
Alarms	
• Diagnostic alarm	No
• Hardware interrupt	No
Diagnoses	
• Monitoring the supply voltage	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
• Monitoring of the supply voltage (PWR-LED)	Yes; via SIMATIC TOP connect connection module
• Channel status display	Yes; via SIMATIC TOP connect connection module
• for channel diagnostics	No
• for module diagnostics	No
Potential separation	
Potential separation channels	
• between the channels	No
• between the channels, in groups of	16; 32 when using SIMATIC TOP connect connection module
• between the channels and backplane bus	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ecological footprint	
• environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	18.9 kg
— global warming potential, (during production) [CO2 eq]	12.1 kg
— global warming potential, (during operation) [CO2 eq]	7.66 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-1.02 kg
product functions / security / header	
signed firmware update	No
data integrity	No

Ambient conditions					
Ambient temperature during operation					
• horizontal installation, min.	-30 °C				
• horizontal installation, max.	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				
Height	147 mm				
Depth	129 mm				
Weights					
Weight, approx.	250 g				
Other					
Note:	Please order cable and connection modules separately				
Classifications					
		Version	Classification		
	eClass	14	27-24-22-04		
	eClass	12	27-24-22-04		
	eClass	9.1	27-24-22-04		
	eClass	9	27-24-22-04		
	eClass	8	27-24-22-04		
	eClass	7.1	27-24-22-04		
	eClass	6	27-24-22-04		
	ETIM	9	EC001419		
	ETIM	8	EC001419		
	ETIM	7	EC001419		
	IDEA	4	3566		
	UNSPSC	15	32-15-17-05		
Approvals / Certificates					
General Product Approval			For use in hazardous locations		
					
For use in hazardous locations			Marine / Shipping		
					
Marine / Shipping					
					
Marine / Shipping		Environment			



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