



SIMATIC S7-1500, DIGITAL INPUT MODULE DI16 X DC24V, SOURCE; 16 CHANNELS IN GROUPS OF 16; INPUT DELAY 3.2MS; INPUT TYPE 3 (IEC 61131)

General information

Hardware product version

E01

Firmware version

V2.0.0

Product function

- I&M data

Yes; I&M0 to I&M3

Engineering with

- STEP 7 TIA Portal can be configured/integrated as of version
- STEP 7 can be configured/integrated as of version
- PROFIBUS as of GSD version/GSD revision
- PROFINET as of GSD version/GSD revision

V12 / V12

V5.5 SP3 / -

V1.0 / V5.1

V2.3 / -

Operating mode

- MSI

Yes

Power

Power available from the backplane bus

0.9 W

Power losses

Power loss, typ.	2.8 W
Digital inputs	
Number of digital inputs	16
m/p-reading	m-reading
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Input voltage	
• Type of input voltage	DC
• Rated value, DC	24 V
• for signal "0"	30 to -5 V
• for signal "1"	-11 to -30 V
Input current	
• for signal "1", typ.	4.5 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
Cable length	
• Cable length, shielded, max.	1 000 m
• Cable length unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— Permissible quiescent current (2-wire sensor), max.	1.5 mA
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm	No
• Hardware interrupt	No

Diagnostic messages	
• Diagnostics	No
• Monitoring the supply voltage	No
• Wire break	No
• Short circuit	No
• Fuse blown	No
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
• Monitoring of the supply voltage (PWR-LED)	No
• Channel status display	Yes; Green LED
• for channel diagnostics	No
• for module diagnostics	No
Galvanic isolation	
Electrical isolation channels	
• between the channels	No
• between the channels, in groups of	16
• between the channels and the backplane bus	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation checked with	707 V DC (type test)
Decentralized operation	
Prioritized startup	Yes
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	230 g
last modified:	25.09.2014