



SIMATIC S7-1500, DIGITAL INPUT MODULE, DI32 X DC24V, 32 CHANNELS IN GROUPS OF 16; INPUT DELAY TYP. 3.2MS; INPUT TYPE 3 (IEC 61131) INCL. FRONT CONNECTOR PUSH-IN

Product type designation

General information

HW functional status	E01
Firmware version	V1.0.0

Product function	
• I&M data	Yes; I&M0 to I&M3

Engineering with	
• STEP 7 TIA Portal can be configured/integrated as of version	V13 / V13
• STEP 7 can be configured/integrated as of version	V5.5 SP3 / -
• PROFIBUS as of GSD version/GSD revision	V1.0 / V5.1
• PROFINET as of GSD version/GSD revision	V2.3 / -

Operating mode	
• MSI	Yes

Supply voltage

Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V

Power

Power available from the backplane bus	1.05 W
--	--------

Power losses

Power loss, typ.	3 W
------------------	-----

Digital inputs

Number of digital inputs	32
m/p-reading	p-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 +5V
• for signal "1"	+11 to +30V
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
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

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
• MAINT LED	No
• 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
• between the channels and the supply voltage of the electronics	No

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	25 mm
Height	147 mm
Depth	129 mm

Weights

Weight, approx.	260 g
-----------------	-------

other

Note:	Supplied incl. 40-pole push-in front connectors
-------	---

last modified:	12.03.2015
-----------------------	------------