



SIMATIC S7-1500, DIGITAL INPUT MODULE,
DI16 X DC24V,
16 CHANNELS IN GROUPS OF 16;
INPUT DELAY TYP. 3.2MS;
INPUT TYPE 3 (IEC 61131) INCL. FRONT CONNECTOR
PUSH-IN

General information	
Hardware product version	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 / -
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.	1.8 W
Digital inputs	
Number of digital inputs	16
m/p-reading	p-reading
	Yes
Input voltage	
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.	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	
	1000 m
	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 the supply voltage	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
Decentralized operation	
Prioritized startup	Yes
Dimensions	
Width	25 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	230 g
Status	May 9, 2014