



SIPLUS S7-1500 DI 32X24VDC HF -40 ... +70 DEGREES C  
WITH CONFORMAL COATING BASED ON 6ES7521-1BL00  
-0AB0 . DIGITAL OUTPUT MODULE DQ 16 X 24VDC/0.5A;  
16 CHANNELS IN GROUPS OF 8,  
4 A PER GROUP;  
DIAGNOSIS;  
SUBSTITUTE VALUE

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	V12 / V12
STEP 7 can be configured/integrated as of version	V5.5 SP3 / -
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
Input current	
Current consumption, max.	40 mA ; 20 mA per group with 24 V DC supply
Power	
Power available from the backplane bus	1.1 W
Power losses	

Power loss, typ.	4.2 W
<b>Digital inputs</b>	
Number of digital inputs	32 ; > +60 °C, number of simultaneously controllable inputs max. 16
m/p-reading	p-reading
Input characteristic curve in accordance with IEC 61131, type 3	Yes
<b>Input voltage</b>	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	-30 to +5 V
for signal "1"	11 to 30 V
<b>Input current</b>	
for signal "1", typ.	2.5 mA
<b>Input delay (for rated value of input voltage)</b>	
<b>for standard inputs</b>	
Parameterizable	Yes ; 0.05 / 0.1 / 0.4 / 1.6 / 3.2 / 12.8 / 20 ms
at "0" to "1", min.	0.05 ms
at "0" to "1", max.	20 ms
at "1" to "0", min.	0.05 ms
at "1" to "0", max.	20 ms
<b>for interrupt inputs</b>	
Parameterizable	Yes
<b>Cable length</b>	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
<b>Encoder</b>	
<b>Connectable encoders</b>	
2-wire sensor	Yes
Permissible quiescent current (2-wire sensor), max.	1.5 mA
<b>Isochronous mode</b>	
Isochronous operation (application synchronized up to terminal)	Yes
Filtering and processing time (TCI), min.	80 µs ; At 50 µs filter time
Bus cycle time (TDP), min.	250 µs
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
Diagnostic alarm	Yes
Hardware interrupt	Yes
<b>Diagnostic messages</b>	
Diagnostics	Yes

Monitoring the supply voltage	Yes
Wire break	Yes ; to I < 350 µA
Short circuit	No
Fuse blown	No
<b>Diagnostics indication LED</b>	
RUN LED	Yes ; Green LED
ERROR LED	Yes ; Red LED
Monitoring the supply voltage	Yes ; Green LED
Channel status display	Yes ; Green LED
for channel diagnostics	Yes ; Red LED
for module diagnostics	Yes ; Red LED
<b>Galvanic isolation</b>	
<b>Electrical isolation channels</b>	
between the channels	Yes
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
<b>Ambient conditions</b>	
<b>Operating temperature</b>	
horizontal installation, min.	-40 °C
horizontal installation, max.	70 °C
vertical installation, min.	-40 °C
vertical installation, max.	40 °C
<b>Extended ambient conditions</b>	
Relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
<b>Relative humidity</b>	
With condensation, tested in accordance with IEC 60068-2-38, maximum	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
<b>Resistance</b>	
to biologically active substances/conformity with EN 60721-3-3	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
to chemically active substances/conformity with EN 60721-3-3	Yes ; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
to mechanically active substances/conformity with EN 60721-3-3	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
<b>Decentralized operation</b>	
Supports fast startup	Yes ; 500 ms

Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	260 g
Status	May 9, 2014