

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

S7-300

6AG1542-5DX00-7XE0

SIPLUS COMMUNICATION PROCESSOR

Used with the applicable SIPLUS S7-1500 communication configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official product documentation

product type designation

SIPLUS S7-1500 NET CM 1542-5

SIPLUS S7-1500 CM 1542-5 (Profibus) based on 6GK7542-5DX00-0XE0 with conformal coating, -40...+70 °C, start up -25 °C, communications module for connection of S7-1500 to PROFIBUS DP as DP master and DP Slave: S7 and PG/OP communication, time-of-day synchronization, diagnostics



Figure similar

product brand name

SIMATIC NET

transfer rate

transfer rate

- at the 1st interface / according to PROFIBUS 9,6 kbit/s ... 12 Mbit/s

interfaces

number of interfaces / according to Industrial Ethernet

0

number of electrical connections

- at the 1st interface / according to PROFIBUS 1

type of electrical connection

- at the 1st interface / according to PROFIBUS 9-pin Sub-D socket (RS485)

supply voltage, current consumption, power loss

type of voltage / of the supply voltage

DC

supply voltage / 1 / from backplane bus

15 V

relative symmetrical tolerance / at DC

- at 15 V 3 %

consumed current

- from backplane bus / at DC / at 15 V / typical 0,2 A

power loss [W]

3 W

ambient conditions

ambient temperature

- for vertical installation / during operation -40 ... +40 °C
- for horizontally arranged busbars / during operation -40 ... +70 °C
- during storage -40 ... +70 °C
- during transport -40 ... +70 °C
- note Startup @ -25 °C

installation altitude / at height above sea level / maximum

5000 m

ambient condition / relating to ambient temperature - air pressure - installation altitude

Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)

chemical resistance / to commercially available cooling lubricants

Yes; incl. airborne diesel and oil droplets

resistance to biologically active substances

- conformity according to EN 60721-3-3 Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
- conformity according to EN 60721-3-6 Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)

resistance to chemically active substances

- conformity according to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.

conformity according to EN 60721-3-6	Yes
resistance to mechanically active substances - conformity according to EN 60721-3-3 - conformity according to EN 60721-3-6	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation. Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / according to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / according to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, class A
protection class IP	IP20
design, dimensions and weights	
module format	Compact module S7-1500 single width
width	35 mm
height	142 mm
depth	129 mm
net weight	0,4 kg
fastening method S7-1500 rail mounting	Yes
product features, product functions, product components / general	
number of units - per CPU / maximum - note	8 depending on CPU type
performance data / open communication	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	30
data volume as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum	240 byte
performance data / PROFIBUS DP	
service / as DP master DPV1	Yes
number of DP devices on DP master / operable	125
data volume - of the address range of the inputs / as DP master / total - of the address range of the outputs / as DP master / total - of the address range of the inputs / per DP device - of the address range of the outputs / per DP device	8192 byte 8192 byte 244 byte 244 byte
service / as DP device - DPV0 - DPV1	Yes Yes
data volume - of the address range of the inputs / as DP device / total - of the address range of the outputs / as DP device / total	240 byte 240 byte
performance data / S7 communication	
number of possible connections / for S7 communication maximum	48; depending on the system upper limit
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	48
performance data / telecontrol	
protocol / is supported TCP/IP	No
product functions / management, configuration, engineering	
configuration software required	STEP 7 Professional V12 (TIA Portal) or higher
identification & maintenance function	