

product type designation

SIPLUS SINAUT ST7, TIM 3V-IE

SIPLUS ST7 TIM 3V-IE -25...+70 °C with conformal coating based on 6NH7800-3BA00 . communication module for "SIMATIC S7-300 and C7; with" one RS232 interface for SINAUT communication via classic WAN and an RJ45 interface for SINAUT communication via an IP-based network (WAN or LAN)



transfer rate

transfer rate

- | | |
|---------------------------|--------------------|
| • for Industrial Ethernet | 10 ... 100 Mbit/s |
| • acc. to RS 232 | 50 ... 38400 bit/s |

interfaces

number of interfaces / acc. to Industrial Ethernet	1
number of electrical connections	
• for external data transmission / acc. to RS 232	1
• for power supply	1
type of electrical connection	
• of Industrial Ethernet interface	RJ45 port
type of electrical connection	
• at interface 1 / for external data transmission	9 pin Sub-D-connector (RS232)
• for power supply	2-pole plugable terminal block
design of the removable storage / C-PLUG	No

supply voltage, current consumption, power loss

type of voltage / of the supply voltage	DC
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supply voltage	24 V
supply voltage	20.4 ... 28.8 V
supply voltage / external / at DC / rated value	24 V
supply voltage / external / at DC / rated value	20.4 ... 28.8 V
relative symmetrical tolerance / at DC	
• at 5 V	5 %
relative positive tolerance / at DC / at 24 V	5 %
relative negative tolerance / at DC / at 24 V	5 %
consumed current	
• from backplane bus / at DC / at 24 V / maximum	0.2 A
• from external supply voltage / at DC / at 24 V / maximum	0.2 A
power loss [W]	5.8 W
product extension / optional / backup battery	No

ambient conditions	
ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °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)
relative humidity	
• with condensation / acc. to IEC 60068-2-38 / maximum	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
resistance to biologically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
• conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
• conformity acc. 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 acc. to EN 60721-3-6	Yes
resistance to mechanically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.

<ul style="list-style-type: none"> conformity acc. to EN 60721-3-6 	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 / acc. 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 / acc. 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 acc. to IPC-CC-830A	Yes; Conformal coating, class A
protection class IP	IP20

design, dimensions and weights

module format	Compact module S7-300 single width
width	40 mm
height	125 mm
depth	120 mm
net weight	0.2 kg

product features, product functions, product components / general

number of units	
<ul style="list-style-type: none"> per CPU / maximum 	1
wire length	
<ul style="list-style-type: none"> with RS 232 interface / maximum 	6 m

performance data / S7 communication

number of possible connections / for S7 communication	
<ul style="list-style-type: none"> maximum 	12
<ul style="list-style-type: none"> with PG connections / maximum 	4
<ul style="list-style-type: none"> with OP connections / maximum 	8
service	
<ul style="list-style-type: none"> SINAUT ST7 via S7 communication 	Yes
<ul style="list-style-type: none"> PG/OP communication 	Yes

performance data / multi-protocol mode

number of active connections / with multi-protocol mode	12
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performance data / telecontrol

suitability for use	
<ul style="list-style-type: none"> node station 	No
<ul style="list-style-type: none"> substation 	Yes
<ul style="list-style-type: none"> TIM control center 	Yes
protocol / is supported	
<ul style="list-style-type: none"> SINAUT ST1 protocol 	Yes
<ul style="list-style-type: none"> SINAUT ST7 protocol 	Yes

storage capacity	
<ul style="list-style-type: none"> • note 	TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case
product feature / buffered message frame memory	No
transmission format	
<ul style="list-style-type: none"> • for SINAUT ST1 protocol with polling / 11 bit 	Yes
<ul style="list-style-type: none"> • for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit 	Yes
<ul style="list-style-type: none"> • for SINAUT ST7 protocol with multi-master polling / 10-bit 	Yes
<ul style="list-style-type: none"> • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit 	Yes
operating mode for scanning of data transmission	
<ul style="list-style-type: none"> • with dedicated line/radio link / with SINAUT ST1 protocol 	Polling, polling with time slot procedure
<ul style="list-style-type: none"> • with dedicated line/radio link / with SINAUT ST7 protocol 	Polling, polling with time slot procedure, multi-master polling with time slot procedure
<ul style="list-style-type: none"> • with dial-up network / with SINAUT ST1 protocol 	spontaneous
<ul style="list-style-type: none"> • with dial-up network / with SINAUT ST7 protocol 	spontaneous
hamming distance	
<ul style="list-style-type: none"> • for SINAUT ST1 protocol 	4
<ul style="list-style-type: none"> • for SINAUT ST7 protocol 	4

product functions / management, configuration, engineering

configuration software	
<ul style="list-style-type: none"> • required 	SINAUT ST7 ES
<ul style="list-style-type: none"> • for CPU configuring / required / SINAUT TD7 block library for CPU 	Yes
<ul style="list-style-type: none"> • for PG configuring / required / SINAUT ST7 configuration software for PG 	Yes
storage location / of TIM configuration data	on the CPU

product functions / security

operating mode / Virtual Private Network (VPN)	Yes
type of authentication / with Virtual Private Network / PSK	Yes

further information / internet-Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector TIA Selection Tool 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	http://www.siemens.com/industrial-controls/mall
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/automation/net/catalog

- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<http://support.automation.siemens.com>

security information

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14.11.2013- Siemens AG, I I A L C G, Nuremberg

last modified:

10/12/2020