

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)



Transmission 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
• 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
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

Permitted ambient conditions

Ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Ambient condition / relating to ambient temperature - air pressure - installation altitude	-25 ... +70°C at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // -25 ... +60°C at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // -25 ... +50°C at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity / with condensation / maximum	100 %; r.F., incl. condensation/frost permitted (no commissioning in bedewed state)
Resistance to biologically active substances	
• conformity acc. to EN 60721-3-3	Yes; Compliance with EN 60721-3-3, Class 3B2 mold, fungus, and sponge spores (except fauna). The supplied plug covers must remain in place over the unused interfaces during operation!
Resistance to chemically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3). The supplied plug covers must remain in place over the unused interfaces during operation!
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!
Protection class IP	IP20

Design, dimensions and weight

Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.2 kg

Product properties, functions, components / general

Number of units	
• per CPU / maximum	1
Wire length	
• with RS 232 interface / maximum	6 m
Performance data / S7 communication	
Number of possible connections / for S7 communication	
• maximum	12
• with PG connections / maximum	4
• with OP connections / maximum	8
Service	
• SINAUT ST7 via S7 communication	Yes
• PG/OP communication	Yes
Performance data / multi-protocol mode	
Number of active connections / with multi-protocol mode	12
Performance data / telecontrol	
Suitability for use	
• Node station	No
• substation	Yes
• TIM control center	Yes
Protocol / is supported	
• SINAUT ST1 protocol	Yes
• SINAUT ST7 protocol	Yes
Storage capacity	
• 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	
• for SINAUT ST1 protocol with polling / 11 bit	Yes
• for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit	Yes
• for SINAUT ST7 protocol with multi-master polling / 10-bit	Yes
• for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit	Yes
Operating mode for scanning of data transmission	
• with dedicated line/radio link / with SINAUT ST1 protocol	Polling, polling with time slot procedure
• 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
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

Suitability for operation / Virtual Private Network	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 SIMATIC NET 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
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	http://support.automation.siemens.com

Security information

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14.11.2013- Siemens AG, I IA L CG, Nuremberg

last modified:

12/25/2018