

Product type designation

SIPLUS SINAUT ST7, TIM 3V-IE

SIPLUS ST7 TIM 3V-IE -25 ... +70 DEGREES C WITH CONFORMAL COATING BASED ON 6NH7800-3BA00 . COMMUNICATION MODULE FOR SIMATIC S7-300 AND C7; WITH A RS232-INTERFACE FOR SINAUT COMMUNICATION VIA A CLASSIC WAN AND A 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	
<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"> • TCP/IP 	Yes
<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 • with dial-up network / with SINAUT ST1 protocol • with dial-up network / with SINAUT ST7 protocol 	Polling, polling with time slot procedure, multi-master polling with time slot procedure spontaneous spontaneous
Hamming distance <ul style="list-style-type: none"> • for SINAUT ST1 protocol • for SINAUT ST7 protocol 	4 4
Configuration software <ul style="list-style-type: none"> • required • for CPU configuring / required / SINAUT TD7 block library for CPU • for PG configuring / required / SINAUT ST7 configuration software for PG 	SINAUT ST7 ES Yes 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 • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support 	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

Security information

Security information

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