

product type designation



SINAUT ST7, TIM 3V-IE

spare part SIPLUS NET TIM 3V-IE based on 6NH7800-3BA00 with conformal coating, -25...+70 °C, communications module for SIMATIC S7-300 and C7; with one RS-232 interface for SINAUT communication via a classic wide area network and an RJ45 interface for SINAUT communication via an IP-based network (WAN or LAN)

product brand name

SIPLUS

Technical Product Detail Page

<https://l.siemens.com/1P6AG1800-3BA00-7AA0>

transfer rate

transfer rate

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

interfaces

number of interfaces / according to Industrial Ethernet

1

number of electrical connections

- for external data transmission / according 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

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 <ul style="list-style-type: none"> with condensation / according 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 <ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-6 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances <ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-6 	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. Yes
resistance to mechanically active substances <ul style="list-style-type: none"> 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 S7-300 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 with PG connections / maximum with OP connections / maximum 	12 4 8
service <ul style="list-style-type: none"> SINAUT ST7 via S7 communication PG/OP communication 	Yes Yes
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	12
performance data / telecontrol	
suitability for use <ul style="list-style-type: none"> node station substation TIM control center 	No Yes Yes
protocol / is supported <ul style="list-style-type: none"> SINAUT ST1 protocol SINAUT ST7 protocol 	Yes 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: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> • to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	https://siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com
security information	
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General Product Approval

EMV



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