

product type designation



TIM 3V-IE Advanced

SINAUT ST7, TIM 3V-IE advanced communications module for SIMATIC S7-300 with an RS232 interface for SINAUT communication via a classic WAN and an RJ45 interface for SINAUT communication via an IP-based network (WAN or LAN).

transfer rate	
transfer rate	
<ul style="list-style-type: none"> for Industrial Ethernet 	10 ... 100 Mbit/s
<ul style="list-style-type: none"> according to RS 232 	50 ... 38400 bit/s
interfaces	
number of interfaces / according to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> for external data transmission / according to RS 232 	1
<ul style="list-style-type: none"> for power supply 	1
type of electrical connection	
<ul style="list-style-type: none"> of Industrial Ethernet interface 	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> at interface 1 / for external data transmission 	9 pin Sub-D-connector (RS232)
<ul style="list-style-type: none"> for power supply 	2-pole plugable terminal block
design of the removable storage	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 5 V 	5 %
relative positive tolerance / at DC / at 24 V	5 %
relative negative tolerance / at DC / at 24 V	5 %
consumed current	
<ul style="list-style-type: none"> from backplane bus / at DC / at 24 V / maximum 	0.2 A
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> during operation 	0 ... 60 °C
<ul style="list-style-type: none"> during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> during transport 	-40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> at 25 °C / without condensation / during operation / maximum 	95 %

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	0.25 kg
product features, product functions, product components / general	
number of units	Number of TIMs per S7-300: multiple, number depends on the connection resources of the S7-300 CPU
<ul style="list-style-type: none"> note 	
wire length	6 m
<ul style="list-style-type: none"> with RS 232 interface / maximum 	
performance data / S7 communication	
number of possible connections / for S7 communication	24
<ul style="list-style-type: none"> maximum 	
<ul style="list-style-type: none"> with PG connections / maximum with OP connections / maximum 	
service	Yes
<ul style="list-style-type: none"> SINAUT ST7 via S7 communication PG/OP communication 	
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	24
performance data / telecontrol	
suitability for use	Yes
<ul style="list-style-type: none"> node station substation TIM control center note 	
<ul style="list-style-type: none"> note 	
<ul style="list-style-type: none"> note 	
protocol / is supported	No
<ul style="list-style-type: none"> DNP3 SINAUT ST1 protocol SINAUT ST7 protocol 	
<ul style="list-style-type: none"> SINAUT ST7 protocol 	
product function / data buffering if connection is aborted	Yes; 32,000 data messages
storage capacity	20 Kibyte
<ul style="list-style-type: none"> of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required note 	
<ul style="list-style-type: none"> note 	
product feature / buffered message frame memory	No
transmission format	Yes
<ul style="list-style-type: none"> for SINAUT ST1 protocol with polling / 11 bit for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit for SINAUT ST7 protocol with multi-master polling / 10-bit for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit 	
<ul style="list-style-type: none"> for SINAUT ST7 protocol with multi-master polling / 10-bit for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit 	
<ul style="list-style-type: none"> for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit 	
operating mode for scanning of data transmission	Polling, polling with time slot procedure
<ul style="list-style-type: none"> with dedicated line/radio link / with SINAUT ST1 protocol with dedicated line/radio link / with SINAUT ST7 protocol 	
<ul style="list-style-type: none"> with dial-up network / with SINAUT ST1 protocol with dial-up network / with SINAUT ST7 protocol 	
<ul style="list-style-type: none"> with dial-up network / with SINAUT ST1 protocol with dial-up network / with SINAUT ST7 protocol 	
hamming distance	4
<ul style="list-style-type: none"> for SINAUT ST1 protocol for SINAUT ST7 protocol 	
product functions / management, configuration, engineering	
configuration software	SINAUT ST7 ES
<ul style="list-style-type: none"> required for CPU configuring / required / SINAUT TD7 block library for CPU 	
<ul style="list-style-type: none"> for CPU configuring / required / SINAUT TD7 block library for CPU 	

<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 TIM
product functions / security	
operating mode / Virtual Private Network (VPN)	Yes
type of authentication / with Virtual Private Network / PSK	Yes
product function	
<ul style="list-style-type: none"> • password protection for VPN 	Yes
<ul style="list-style-type: none"> • MSC client via GPRS modem with MSC capability 	Yes
protocol	
<ul style="list-style-type: none"> • is supported / MSC protocol 	Yes
<ul style="list-style-type: none"> • with Virtual Private Network MSC / is supported 	TCP/IP
key length / for MSC / with Virtual Private Network	128 bit
number of possible connections	
<ul style="list-style-type: none"> • as MSC client / with VPN connection 	1
<ul style="list-style-type: none"> • as MSC server / with VPN connection 	0
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
<ul style="list-style-type: none"> • as marking 	Ex nA IIC T4 Gc
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
<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 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<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 	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com . (V3.4)

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