SIEMENS

Data sheet 6NH7800-3CA00

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	
 for Industrial Ethernet 	10 100 Mbit/s
• acc. to RS 232	50 38400 bit/s
interfaces	
number of interfaces / according 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
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	0 60 °C
during storage	-40 +70 °C
 during transport 	-40 +70 °C
relative humidity	

• 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	
number of units	9-10-1
• note	Number of TIMs per S7-300: multiple, number depends on the
• Hote	connection resources of the S7-300 CPU
wire length	
with RS 232 interface / maximum	6 m
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	24
with PG connections / maximum	4
with OP connections / maximum	20
service	
SINAUT ST7 via S7 communication	Yes
PG/OP communication	Yes
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	24
performance data / telecontrol	24
suitability for use	v
node station	Yes
• substation	Yes
TIM control center	Yes
• note	RS232 and Industrial Ethernet can be operated in parallel
protocol / is supported	
• DNP3	No
SINAUT ST1 protocol	Yes
SINAUT ST7 protocol	Yes
product function / data buffering if connection is aborted	Yes; 32,000 data messages
storage capacity	
 of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required 	20 Kibyte
of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required.	0 Kibyte
blocks on TIM / required	TD7onCDLI: at least 20 KB, actual requirement determined by data
• 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
with dial-up network / with SINAUT ST1 protocol	spontaneous
with dial-up network / with SINAUT ST7 protocol	spontaneous
hamming distance	
• for SINAUT ST1 protocol	4
• for SINAUT ST7 protocol	4
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configuration software • required • for CPU configuring / required / SINAUT TD7 block library for CPU • for PG configuring / required / SINAUT ST7 configuration software for PG storage location / of TIM configuration data product functions / security operating mode / Virtual Private Network (VPN) type of authentication / with Virtual Private Network / PSK product function • password protection for VPN • MSC client via GPRS modem with MSC capability protocol • is supported / MSC protocol • with Virtual Private Network MSC / is supported key length / for MSC / with Virtual Private Network rumber of possible connections • as MSC client / with VPN connection • as MSC server / with VPN connection • as MSC server / with VPN connection • as MSC server / with VPN connection standards, specifications, specifications, specifications, specifications as provided in the provided further information / internet-link internet-Link • to website: Industry Mall • to website: Industry Online Support security information Siemens provides products and solutions with industrial security functions that support the secure operation of pins, solutions, in a holistic industrying security oncept. With his in mind, Siemens' products and solutions undergo continuous development is meaning security oncept. With his in mind, Siemens' products and solutions undergo continuous development is machines, equipment add/or networks. They are industrial security functions that support 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 in a holistic state-of-third industrial security or oncept. With his in mind, Siemens' product and solutions undergo continuous development. Siemens recommends strongly that you regularly	product functions / management, configuration, engineeri	ing	
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