SIEMENS

Data sheet 6NH7803-3BA00-0AA0

product type designation	**TIM 3V-IE DNP3**



- - spare part - - TIM 3V-IE DNP3 communications module for SIMATIC S7-300 with an RS232 interface for DNP3 communication via a classic WAN and an RJ45 interface for DNP3 communication via a IP-based network (WAN or LAN).

product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6NH7803-3BA00-0AA0
transfer rate	
transfer rate	
● for Industrial Ethernet	10 ... 100 Mbit/s
● according to RS 232	9600 ... 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
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

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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	
● note	Number of TIMs per S7-300: 1
wire length	
● with RS 232 interface / maximum	6 m
performance data / S7 communication	
number of possible connections / for S7 communication	
● maximum	3; only via LAN
● with PG connections / maximum	2
● with OP connections / maximum	1
service	
● PG/OP communication	Yes
performance data / telecontrol	
suitability for use	
● node station	Yes
● substation	Yes
● TIM control center	Yes
protocol / is supported	
● DNP3	Yes
● SINAUT ST1 protocol	No
● SINAUT ST7 protocol	No
● Modbus RTU	Yes
product function / data buffering if connection is aborted	Yes; 64,000 data points with one master
number of DNP3 masters	
● for Ethernet / maximum	8
● with RS 232 interface / maximum	1
number of Modbus RTU devices / maximum	1
product functions / management, configuration, engineering	
configuration software	
● required	SINAUT ST7 ES
storage location / of TIM configuration data	on the CPU or TIM
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
standards, specifications, approvals	
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / KC approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
standards, specifications, approvals / hazardous environments / header	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / ULhazloc approval	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://siemens.com/cax

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● to website: Industry Online Support	https://support.industry.siemens.com

security information

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

EG-Konf.	UKCA	Declaration of Conformity	China RoHS	Manufacturer Declaration	UL

General Product Approval				EMV	For use in hazardous locations
RCM	China RoHS	EG-Konf.	UKCA	KC	ATEX

For use in hazardous locations

IECEx	FM	CCC-Ex	UL

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