

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://l.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

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

security information

security information

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Approvals / Certificates

General Product Approval



[Declaration of Con-
formity](#)



[China RoHS](#)



General Product Approval

EMV

**For use in hazard-
ous locations**



[China RoHS](#)



For use in hazardous locations



[FM](#)

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