

Product type designation

TIM 3V-IE DNP3

TIM 3V-IE DNP3 communication 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)



Transfer rate

Transfer rate

- for Industrial Ethernet
- acc. to RS 232

10 ... 100 Mbit/s

9600 ... 38400 bit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet

1

Number of electrical connections

- for external data transmission / acc. to RS 232
- for power supply

1

1

Type of electrical connection

- of Industrial Ethernet interface
- at interface 1 / for external data transmission
- for power supply

RJ45 port

9 pin Sub-D-connector (RS232)

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
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
• with PG connections / maximum	2
• with OP connections / maximum	1
• Note	only via LAN
Service	
• PG/OP communication	Yes

Performance data / PROFINET CBA

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 slaves / maximum	1

Product functions / management, configuration, engineering

Configuration software	
• required	SINAUT ST7 ES
Storage location / of TIM configuration data	on the CPU or TIM

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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