

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)



Transmission 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	
<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

Permitted 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 / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

Design, dimensions and weight

Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.25 kg

Product properties, functions, components / general

Number of units	
<ul style="list-style-type: none"> • Note 	Number of TIMs per S7-300: 1
Wire length	
<ul style="list-style-type: none"> • with RS 232 interface / maximum 	6 m

Performance data / S7 communication

Number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • maximum 	3
<ul style="list-style-type: none"> • with PG connections / maximum 	2
<ul style="list-style-type: none"> • with OP connections / maximum 	1
<ul style="list-style-type: none"> • Note 	only via LAN
Service	
<ul style="list-style-type: none"> • PG/OP communication 	Yes

Performance data / telecontrol

Suitability for use	
<ul style="list-style-type: none"> • Node station 	Yes

<ul style="list-style-type: none"> • substation 	Yes
<ul style="list-style-type: none"> • TIM control center 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • TCP/IP 	Yes
<ul style="list-style-type: none"> • DNP3 	Yes
<ul style="list-style-type: none"> • SINAUT ST1 protocol 	No
<ul style="list-style-type: none"> • SINAUT ST7 protocol 	No
<ul style="list-style-type: none"> • Modbus RTU 	Yes
Product function / data buffering if connection is aborted	Yes; 64,000 data points with one master
Number of DNP3 masters	
<ul style="list-style-type: none"> • for Ethernet / maximum 	8
<ul style="list-style-type: none"> • with RS 232 interface / maximum 	1
Number of Modbus RTU slaves / maximum	1
Configuration software	
<ul style="list-style-type: none"> • required 	SINAUT ST7 ES
Storage location / of TIM configuration data	on the CPU or TIM

Accessories

Further Information / Internet Links

Internet-Link

- | | |
|---|---|
| <ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| <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

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