

### 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

RJ45 port

#### Type of electrical connection

- at interface 1 / for external data transmission
- for power supply

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"> <li>• from backplane bus / at DC / at 24 V / maximum</li> </ul>	0.2 A
<ul style="list-style-type: none"> <li>• from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.2 A
Power loss [W]	5.8 W
Product extension / optional / Backup battery	No

### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	0 ... 60 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +70 °C
Relative humidity	
<ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul>	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	
<ul style="list-style-type: none"> <li>• Note</li> </ul>	Number of TIMs per S7-300: 1
Wire length	
<ul style="list-style-type: none"> <li>• with RS 232 interface / maximum</li> </ul>	6 m

### Performance data / S7 communication

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

### Performance data / telecontrol

Suitability for use	
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<ul style="list-style-type: none"> <li>• Node station</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• substation</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• TIM control center</li> </ul>	Yes
Protocol / is supported	
<ul style="list-style-type: none"> <li>• DNP3</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• SINAUT ST1 protocol</li> </ul>	No
<ul style="list-style-type: none"> <li>• SINAUT ST7 protocol</li> </ul>	No
<ul style="list-style-type: none"> <li>• Modbus RTU</li> </ul>	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"> <li>• for Ethernet / maximum</li> </ul>	8
<ul style="list-style-type: none"> <li>• with RS 232 interface / maximum</li> </ul>	1
Number of Modbus RTU slaves / maximum	1

### Product functions / management, configuration, engineering

Configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	SINAUT ST7 ES
Storage location / of TIM configuration data	on the CPU or TIM

### Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

### Security information

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Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For 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 into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <http://support.automation.siemens.com>. (V3.4)

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