

### 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	
<ul style="list-style-type: none"> <li>for Industrial Ethernet</li> </ul>	10 ... 100 Mbit/s
<ul style="list-style-type: none"> <li>acc. to RS 232</li> </ul>	9600 ... 38400 bit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	1
number of electrical connections	
<ul style="list-style-type: none"> <li>for external data transmission / acc. to RS 232</li> </ul>	1
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>of Industrial Ethernet interface</li> </ul>	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> <li>at interface 1 / for external data transmission</li> </ul>	9 pin Sub-D-connector (RS232)
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	2-pole plugable terminal block
design of the removable storage	
<ul style="list-style-type: none"> <li>C-PLUG</li> </ul>	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	Number of TIMs per S7-300: 1
<ul style="list-style-type: none"> <li>note</li> </ul>	
wire length	6 m
<ul style="list-style-type: none"> <li>with RS 232 interface / maximum</li> </ul>	
performance data / S7 communication	
number of possible connections / for S7 communication	3; only via LAN 2 1
<ul style="list-style-type: none"> <li>maximum</li> </ul>	
<ul style="list-style-type: none"> <li>with PG connections / maximum</li> </ul>	
<ul style="list-style-type: none"> <li>with OP connections / maximum</li> </ul>	
service	Yes
<ul style="list-style-type: none"> <li>PG/OP communication</li> </ul>	
performance data / telecontrol	
suitability for use	Yes Yes Yes
<ul style="list-style-type: none"> <li>node station</li> </ul>	
<ul style="list-style-type: none"> <li>substation</li> </ul>	
<ul style="list-style-type: none"> <li>TIM control center</li> </ul>	
protocol / is supported	Yes No No Yes
<ul style="list-style-type: none"> <li>DNP3</li> </ul>	
<ul style="list-style-type: none"> <li>SINAUT ST1 protocol</li> </ul>	
<ul style="list-style-type: none"> <li>SINAUT ST7 protocol</li> </ul>	
<ul style="list-style-type: none"> <li>Modbus RTU</li> </ul>	
product function / data buffering if connection is aborted	Yes; 64,000 data points with one master
number of DNP3 masters	8 1
<ul style="list-style-type: none"> <li>for Ethernet / maximum</li> </ul>	
<ul style="list-style-type: none"> <li>with RS 232 interface / maximum</li> </ul>	
number of Modbus RTU slaves / maximum	1
product functions / management, configuration, engineering	
configuration software	SINAUT ST7 ES
<ul style="list-style-type: none"> <li>required</li> </ul>	
storage location / of TIM configuration data	on the CPU or TIM
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
further information / internet-Links	
Internet-Link	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	
<ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>	
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	
<ul style="list-style-type: none"> <li>to website: CAX-Download-Manager</li> </ul>	
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	
security information	
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

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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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