



TIM 3V-IE DNP3 COMMUNICATIONS MODULE FOR SIMATIC S7-300 WITH ONE RS232- INTERFACE FOR DNP3-COMMUNICATION VIA ONE CLASSIC WAN AND ONE 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

Consumed current

- from backplane bus / for DC / at 24 V / maximum
- from external supply voltage / for DC / at 24 V / maximum

0.2 A

0.2 A

Active power loss

5.8 W

Product expansion / optional / Backup battery	No
<b>Permitted ambient conditions</b>	
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
<b>Design, dimensions and weight</b>	
Module format	Compact module S7-300 single width
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.25 kg
<b>Product properties, functions, components / general</b>	
Number of units	
• Note	Number of TIMs per S7-300: 1
Cable length	
• with RS 232 interface / maximum	6 m
<b>Performance data / S7 communication</b>	
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
<b>Performance data / telecontrol</b>	
Suitability for use	
• Node station	Yes
• substation	Yes
• TIM control center	Yes
Protocol / is supported	
• TCP/IP	Yes
• DNP3	Yes
• SINAUT ST1 protocol	No
• SINAUT ST7 protocol	No
• Modbus RTU	Yes

Product function / data buffering if connection is aborted	Yes
<ul style="list-style-type: none"> <li>Note</li> </ul>	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

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/automation/net/catalog">http://www.siemens.com/automation/net/catalog</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

Security information	<p>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 <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>
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