SIEMENS

## Data sheet 6NH7803-3BA00-0AA0

**product type designation**

**TIM 3V-IE DNP3**

TIM 3V-IE DNP3 communications 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 | 10 ... 100 Mbit/s |
| ● according to RS 232 | 9600 ... 38400 bit/s |
| **interfaces** | |
| number of interfaces / according to Industrial Ethernet | 1 |
| number of electrical connections | |
| ● for external data transmission / according to RS 232 | 1 |
| ● for power supply | 1 |
| type of electrical connection | |
| ● of Industrial Ethernet interface | RJ45 port |
| type of electrical connection | |
| ● at interface 1 / for external data transmission | 9 pin Sub-D-connector (RS232) |
| ● for power supply | 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 |
| **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 | |
| ● 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; only via LAN |
| ● with PG connections / maximum | 2 |
| ● with OP connections / maximum | 1 |
| service | |
| ● PG/OP communication | Yes |
| **performance data / telecontrol** | |
| 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 |
| **standards, specifications, approvals** | |
| reference code | |
| ● according to IEC 81346-2:2019 | KEC |
| **further information / internet links** | |
| internet link | |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to website: Industrial communication | https://www.siemens.com/simatic-net |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://www.siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

## Approvals / Certificates

### General Product Approval


Declaration of Conformity





### EMV

KC

### For use in hazardous locations



FM

CCC-Ex


### Environment

Confirmation

**last modified:** 8/22/2024