SIEMENS

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

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	10 ... 100 Mbit/s
• acc. to RS 232	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	1
• for power supply	1
Type of electrical connection	
• of Industrial Ethernet interface	RJ45 port
• 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

Permitted 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 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	
• 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
• with PG connections / maximum	2
• with OP connections / maximum	1
• Note	only via LAN
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
Configuration software	
● required	SINAUT ST7 ES
Storage location / of TIM configuration data	on the CPU or TIM

Further Information / Internet Links

Internet-Link	
● to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx Download Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

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