

product type designation

SIPLUS NET TIM 4R-IE DNP3

SIPLUS NET TIM 4R-IE DNP3 -25...+70°C with conformal coating based on 6NH7803-4BA00-0AA0. TIM 4R-IE DNP3 communication module for "SIMATIC S7-300, ""S7-400, PC;" "with two"" RS232/RS485" interfaces for DNP3 communication via classic WANs and two RJ45 interfaces for DNP3 communication via IP- based networks (WAN or LAN)



Figure similar

transfer rate	
transfer rate	
<ul style="list-style-type: none"> for Industrial Ethernet 	10 ... 100 Mbit/s
<ul style="list-style-type: none"> acc. to RS 232 	9600 ... 115200 bit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	2
number of electrical connections	
<ul style="list-style-type: none"> for external data transmission / acc. to RS 232 	2
<ul style="list-style-type: none"> for power supply 	1
type of electrical connection	
<ul style="list-style-type: none"> of Industrial Ethernet interface 	RJ45 port
type of electrical connection	
<ul style="list-style-type: none"> at interface 1 / for external data transmission 	9 pin Sub-D-connector, RS232 switchable to RS485
<ul style="list-style-type: none"> at interface 2 / for external data transmission 	9-pole D-sub connector, RS232 can be switched to RS485
<ul style="list-style-type: none"> for power supply 	2-pole plugable terminal block
design of the removable storage / C-PLUG	Yes

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"> • from backplane bus / at DC / at 24 V / maximum 	0.2 A
<ul style="list-style-type: none"> • from external supply voltage / at DC / at 24 V / maximum 	0.17 A
power loss [W]	4.6 W
product extension / optional / backup battery	Yes
type of battery	Lithium AA / 3.6 V / 2.3 Ah
backup current	
<ul style="list-style-type: none"> • typical 	100 µA
<ul style="list-style-type: none"> • maximum 	160 µA

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
installation altitude / at height above sea level / maximum	5000 m
ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
relative humidity	
<ul style="list-style-type: none"> • with condensation / acc. to IEC 60068-2-38 / maximum 	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
chemical resistance / to commercially available cooling lubricants	Yes; incl. airborne diesel and oil droplets
resistance to biologically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes
resistance to mechanically active substances	

<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
<ul style="list-style-type: none"> • conformity acc. to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
coating / for equipped printed circuit board / acc. to EN 61086	Yes; Class 2 for high availability
type of coating / protection against pollution according to EN 60664-3	Yes; Protection of the type 1
type of test / of the coating / acc. to MIL-I-46058C	Yes; Coating discoloration during service life possible
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A	Yes; Conformal coating, class A
protection class IP	IP20

design, dimensions and weights

module format	Compact module S7-300 double width
width	80 mm
height	125 mm
depth	120 mm
net weight	0.4 kg

product features, product functions, product components / general

number of units	
<ul style="list-style-type: none"> • note 	Number of TIMs per S7-300 / S7-400: 1
wire length	
<ul style="list-style-type: none"> • with RS 232 interface / maximum 	6 m
<ul style="list-style-type: none"> • with RS 485 interface / maximum 	30 m

performance data / S7 communication

number of possible connections / for S7 communication	
<ul style="list-style-type: none"> • maximum 	5; only via LAN
<ul style="list-style-type: none"> • with PG connections / maximum 	2
<ul style="list-style-type: none"> • with OP connections / maximum 	1
service	
<ul style="list-style-type: none"> • PG/OP communication 	Yes

performance data / telecontrol

suitability for use	
<ul style="list-style-type: none"> • node station 	Yes
<ul style="list-style-type: none"> • substation 	Yes
<ul style="list-style-type: none"> • TIM control center 	Yes
protocol / is supported	
<ul style="list-style-type: none"> • DNP3 	Yes
<ul style="list-style-type: none"> • Modbus RTU 	Yes

product function / data buffering if connection is aborted	Yes; 200,000 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

product functions / time

product component / hardware real-time clock	Yes
product feature / hardware real-time clock w. battery backup	Yes
accuracy / of the hardware real-time clock / per day / maximum	4 s
time synchronization	
• from NTP-server	Yes

further information / internet-Links

Internet-Link	
• to website: Selector TIA 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

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 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)</p>
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