SIEMENS

Data sheet

6NH7800-4BA00

product type designation



TIM 4R-IE

SINAUT ST7, TIM 4R-IE communication module for SIMATIC S7-300, S7-400, PC; with two RS232/RS485 interfaces for SINAUT Communication via standard WAN and two RJ45 interfaces for SINAUT communication via IPbased networks (WAN or LAN)

Figure similar

transfer rate	
transfer rate	
 for Industrial Ethernet 	10 100 Mbit/s
• acc. to RS 232	50 38400 bit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	2
number of electrical connections	
 for external data transmission / acc. to RS 232 	2
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 switchable to RS485
 at interface 2 / for external data transmission 	9-pole D-sub connector, RS232 can be switched to RS485
 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	
 from backplane bus / at DC / at 24 V / maximum 	0.2 A
 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	
• typical	100 μΑ
• maximum	160 µA
ambient conditions	
ambient temperature	
during operation	0 60 °C

duning stranger d	during storage	-40 +70 °C
relative humidity 95 % and 25 °C without condensation / during operation / maximum 95 % protection class IP IP20 dissign, dimensions and weights Compact module \$7.300 double width module format Compact module \$7.300 double width width 80 mm height 125 mm digpti 0.4 kg product fastures, product functions, product component / general number of Links • with R5 323 (inerface / maximum 6 m • with R5 323 (inerface / maximum 6 m • with R5 323 (inerface / maximum 6 d • with R5 323 (inerface / maximum 6 d • with R5 323 (inerface / maximum 6 d • with R5 323 (inerface / maximum 6 d • with R5 323 (inerface / maximum 6 d • with CP connections / maximum 2 servica 95 monunication • with CP connections / maximum 6 d • PeCOP communication Yes protect / is supported 120 • DPGOE portogenetions / with multi-protocol mode 128 protect / is supported Yes • DPA Yes	during storage	
• at 25 °C / without condensation / during operation / maximum 95 % protection class IP IP20 design, dimensions and weights IP20 module format Compact module S7-300 double width with B0 mm degin 125 mm degin 126 mm degin 126 mm degin 128 mm degin 0.4 kg product features, product functions, product components/ general number of tim RARE per S7-300/S7-400, multiple, number with RS 232 interface / maximum • with RS 48 interface / maximum • with RS 48 interface / maximum • with RS 48 interface / maximum of maximum • with PC connections / for S7 communication • with PC connections / maximum 62 service • SIAAUT ST7 vis S7 communication repromance data / for communication ves PGOP communication ves service • SIAAUT ST7 vis S7 communication ves protocomatine data / for commonication		
protection class IP IP20 design, dimensions and weights Compact module SY-300 double width width 80 mm height 125 mm depth 125 mm depth 126 mm depth 128 mm ontole Number of Links india Status india Status with R5 232 interface / maximum 6 m with R5 435 interface / maximum 9 m with R5 connections / maximum 64 with PG connections / maximum 62 service SINAUT ST7 via S7 communication number of actal S7 communication Yes paformance data / full protocol mode 128 paformance data / full protocol mode 128 service SINAUT ST7 via S7 communication Yes inumber of actal / full protocol mode 128 paformance data / full protocol mode 128	• at 25 °C / without condensation / during operation /	95 %
Instance directions and weights Compact module S7-300 double width width 60 mm height 125 mm depth 120 mm net weight 0.4 kg product features, product functions, product component / general mumber of units • inde Number of TIM 4R-IE per 57-300/57-400: multiple, number depends on the connection resources of the CPU wire length • with RS 232 interface / maximum • with RS 435 interface / maximum 6 m • with RS 435 interface / maximum 64 • with PG connections / for S7 communication enable • with PG connections / maximum 62 • service • SIAAUT ST7 via S7 communication • with OP connections / with multi-protocol mode 128 performance data / full-protocol mode 128 performance data / full-protocol mode 128 protocol / is supported Yes • DNde station Yes • IDM control center Yes • Drode station Yes • SINAUT ST1 protocol Yes • IDM control center Yes • of S7 CP		IP20
module format Compact module S7-300 double width width 80 mm depth 125 mm depth 126 mm net weight 0.4 kg product fautures, product functions, product components / general number of units 0.4 kg • note Number of TIM 4R-IE per S7-300/S7-400: multiple, number depends on the connection resources of the CPU wire length 6 m • with RS 428 interface / maximum 6 m • with CP connections / for S7 communication 64 • with CP connections / for S7 communication 64 • with CP connections / maximum 62 • service • SINAUT ST7 via S7 communication • with CP connections / maximum 62 • performance data / selecontrol 128 performance data / numbul: protocol mode 128 performance data / lesicontrol 128 performance data / lesicontrol 128 product function / data buffering if connection is aborted Ves • SINAUT ST7 protocol Yes product function / data buffering if connection is aborted Ves <td></td> <td></td>		
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depth 120 mm net weight 0.4 kg product features, product functions, product components/ general number of units • nole Number of Units • with RS 232 Interface / maximum • with RS 323 Interface / maximum • with RS 323 Interface / maximum • with RS 325 Interface / maximum 64 • with RS connections / maximum 62 service • SINAUT ST7 via S7 communication Yes • PG/OP communication Yes • add station • PG/OP communication Yes • subtability for use • note station • SINAUT ST7 protocol Yes • SINAUT ST1 protocol Yes • SINAUT ST1 protocol Yes • of ST CPU work memory / for TD7onCPU mode • of SINAUT ST1 protocol with poling or TD7onCPU mode • of SINAUT ST1 protocol with spontancous / 10-bit <		
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• substation Yes • TIM control center Yes protocol / is supported No • DNP3 No • SINAUT ST1 protocol Yes product function / data buffering if connection is aborted Yes; 56,000 data messages storage capacity of 57 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of 57 CPU work memory / for TD7onTIM mode data blocks on CPU / required 0 Kibyte • ot 657 CPU work memory / for TD7onTIM mode data blocks on TIM / required 0 Kibyte • note TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory Yes transmission format Yes • for SINAUT ST1 protocol with polling / 11 bit Yes • for SINAUT ST7 protocol with spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes operating mode for scanning of data transmission Yes • with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINA	performance data / telecontrol	
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• DNP3 No • SINAUT ST1 protocol Yes • SINAUT ST7 protocol Yes product function / data buffering if connection is aborted Yes; 56,000 data messages storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required 20 Kibyte • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required 0 Kibyte • note TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory Yes transmission format Yes • for SINAUT ST1 protocol with polling / 11 bit Yes • for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes operating mode for scanning of data transmission Yes • with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure	suitability for use • node station	
• SINAUT ST1 protocol Yes • SINAUT ST7 protocol Yes product function / data buffering if connection is aborted Yes; 56,000 data messages storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required 20 Kibyte • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required 0 Kibyte • note TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory Yes transmission format Yes • for SINAUT ST1 protocol with polling / 11 bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes operating mode for scanning of data transmission Yes • with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure	suitability for use node station substation 	Yes
• SINAUT ST7 protocol Yes product function / data buffering if connection is aborted Yes; 56,000 data messages storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required 20 Kibyte • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required 0 Kibyte • note TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory Yes transmission format Yes • for SINAUT ST1 protocol with polling / 11 bit Yes • for SINAUT ST7 protocol with spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with spontaneous / 10-bit Yes • for SINAUT ST7 protocol with spontaneous / 10-bit Yes • for SINAUT ST7 protocol with spontaneous / 10-bit Polling, polling with time slot procedure	suitability for use node station substation TIM control center 	Yes
product function / data buffering if connection is aborted Yes; 56,000 data messages storage capacity of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required 20 Kibyte of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required 0 Kibyte 0 Kibyte o note TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory Yes transmission format Yes o for SINAUT ST1 protocol with polling / 11 bit Yes of ST SINAUT ST1 protocol with spontaneous / 10-bit Yes of SINAUT ST1 protocol with multi-master polling / 10-bit Yes operating mode for scanning of data transmission Yes with dedicated line/radio link / with SINAUT ST1 protocol with SINAUT ST1 protocol Polling, polling with time slot procedure operating mode for scanning of data transmission Polling, polling with time slot procedure	suitability for use • node station • substation • TIM control center protocol / is supported	Yes Yes
storage capacity of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required ote ote ote ote ote TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory transmission format for SINAUT ST1 protocol with polling / 11 bit for SINAUT ST1 protocol with spontaneous / 10-bit of SINAUT ST7 protocol with multi-master polling / 10-bit for SINAUT ST7 protocol with polling or spontaneous / 10-bit operating mode for scanning of data transmission with dedicated line/radio link / with SINAUT ST1 protocol with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3	Yes Yes No
 of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of S10400000000000000000000000000000000000	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol	Yes Yes No Yes
data blocks on CPU / required 0 Kibyte • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required 0 Kibyte • note TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory Yes transmission format Yes • for SINAUT ST1 protocol with polling / 11 bit Yes • for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes operating mode for scanning of data transmission Yes with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol	Yes Yes Yes Yes
blocks on TIM / required TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory Yes transmission format • for SINAUT ST1 protocol with polling / 11 bit Yes • for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes • poreating mode for scanning of data transmission Yes • with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted	Yes Yes Yes Yes
volume and functional scope TD7onTIM: 0 bytes in most favorable case product feature / buffered message frame memory Yes transmission format • for SINAUT ST1 protocol with polling / 11 bit Yes • for SINAUT ST1 protocol with spontaneous / 10-bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes operating mode for scanning of data transmission Yes • with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode	Yes Yes Yes Yes; 56,000 data messages
transmission format • for SINAUT ST1 protocol with polling / 11 bit Yes • for SINAUT ST1 protocol with spontaneous / 10-bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes operating mode for scanning of data transmission Yes • with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of S7 CPU work memory / for TD7onTIM mode data	Yes Yes No Yes Yes Yes; 56,000 data messages 20 Kibyte
 for SINAUT ST1 protocol with polling / 11 bit for SINAUT ST1 protocol with spontaneous / 10-bit for SINAUT ST7 protocol with multi-master polling / 10-bit for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit operating mode for scanning of data transmission with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time 	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required • note	Yes Yes No Yes Yes Yes Yes; 56,000 data messages 20 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case
 for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit for SINAUT ST7 protocol with multi-master polling / 10-bit for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit operating mode for scanning of data transmission with dedicated line/radio link / with SINAUT ST1 protocol with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time 	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required • note product feature / buffered message frame memory	Yes Yes No Yes Yes Yes Yes; 56,000 data messages 20 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case
or 11-bit • for SINAUT ST7 protocol with multi-master polling / 10-bit Yes • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes operating mode for scanning of data transmission Yes • with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required • note product feature / buffered message frame memory transmission format	Yes Yes No Yes Yes Yes Yes; 56,000 data messages 20 Kibyte 0 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case Yes
10-bit • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Yes operating mode for scanning of data transmission • with dedicated line/radio link / with SINAUT ST1 protocol Polling, polling with time slot procedure • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use node station substation TIM control center protocol / is supported DNP3 SINAUT ST1 protocol SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required note product feature / buffered message frame memory transmission format for SINAUT ST1 protocol with polling / 11 bit 	Yes Yes No Yes Yes Yes; 56,000 data messages 20 Kibyte 0 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case Yes
spontaneous / 10-bit or 11-bit operating mode for scanning of data transmission • with dedicated line/radio link / with SINAUT ST1 protocol • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required • note product feature / buffered message frame memory transmission format • for SINAUT ST1 protocol with polling / 11 bit • for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit	Yes Yes No Yes Yes Yes Yes; 56,000 data messages 20 Kibyte 0 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case Yes
 with dedicated line/radio link / with SINAUT ST1 protocol with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time 	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required • note product feature / buffered message frame memory transmission format • for SINAUT ST1 protocol with polling / 11 bit • for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit • for SINAUT ST7 protocol with multi-master polling / 10-bit	Yes Yes No Yes Yes Yes Yes; 56,000 data messages 20 Kibyte 0 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case Yes Yes Yes
protocol • with dedicated line/radio link / with SINAUT ST7 Polling, polling with time slot procedure, multi-master polling with time	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required • note product feature / buffered message frame memory transmission format • for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit • for SINAUT ST7 protocol with multi-master polling / 10-bit of SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit	Yes Yes No Yes Yes Yes Yes; 56,000 data messages 20 Kibyte 0 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case Yes Yes Yes
	suitability for use • node station • substation • TIM control center protocol / is supported • DNP3 • SINAUT ST1 protocol • SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity • of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required • of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required • note product feature / buffered message frame memory transmission format • for SINAUT ST1 protocol with polling / 11 bit • for SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit • for SINAUT ST7 protocol with multi-master polling / 10-bit • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit	Yes Yes No Yes Yes Yes Yes; 56,000 data messages 20 Kibyte 0 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTiM: 0 bytes in most favorable case Yes Yes Yes Yes
	 suitability for use node station substation TIM control center protocol / is supported DNP3 SINAUT ST1 protocol SINAUT ST7 protocol product function / data buffering if connection is aborted storage capacity of S7 CPU work memory / for TD7onCPU mode data blocks on CPU / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of S7 CPU work memory / for TD7onTIM mode data blocks on TIM / required of SINAUT ST1 protocol with polling / 11 bit of or SINAUT ST1 protocol with spontaneous / 10-bit or 11-bit of or SINAUT ST7 protocol with multi-master polling / 10-bit of or SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit operating mode for scanning of data transmission with dedicated line/radio link / with SINAUT ST1 protocol 	Yes Yes No Yes Yes Yes S6,000 data messages 20 Kibyte 0 Kibyte 0 Kibyte TD7onCPU: at least 20 KB, actual requirement determined by data volume and functional scope TD7onTIM: 0 bytes in most favorable case Yes Yes Yes Yes Polling, polling with time slot procedure

spontaneous spontaneous
spontaneous
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SINAUT ST7 ES
Yes
Yes
on internal TIM flash memory, or on TIM in optional C-PLUG, or on
MMC of the S7-300 CPU if TIM installed in S7-300 controller
Yes
Yes
Yes
Yes
Yes
TCP/IP
128 bit
1
128
Yes
Yes
4 s
Yes
ents
Yes
http://www.siemens.com/tia-selection-tool
http://www.siemens.com/simatic-net
https://mall.industry.siemens.com
http://www.siemens.com/industry/infocenter
http://automation.siemens.com/bilddb
http://www.siemens.com/cax
https://support.industry.siemens.com
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