SIEMENS

Data sheet

6GK7543-1MX00-0XE0

product type designation



TIM 1531 IRC

TIM 1531 IRC Communications module for SIMATIC S7-1500, S7-400, S7-300 with SINAUT ST7, DNP3 and IEC 60870-5-101/104 with three RJ45 interfaces for communication via IP-based networks (WAN / LAN) and an RS-232/RS-485 interface for communications via classic wide area networks.

transfer rate	
transfer rate	
at the 1st interface	10 1000 Mbit/s
at the 2nd interface	10 100 Mbit/s
at interface 3	10 100 Mbit/s
according to RS 232	300 115200 bit/s
interfaces	
number of interfaces / according to Industrial Ethernet	3
number of electrical connections	
 for external data transmission / according to RS 232 	1
for power supply	1
number of slots	
for memory cards	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
for power supply	2-pole plugable terminal block
slot version	
 of the memory card 	SD 1.0, SD 1.1, SDHC, Siemens SMC
storage capacity / of the memory card / maximum	32 Gibyte
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 external supply voltage / at DC / at 24 V / typical 	0.15 A
 from external supply voltage / at DC / at 24 V / maximum 	0.3 A
power loss [W] / with external supply voltage / at 24 V DC	
• in update mode / typical	3.9 W
• in communication mode / typical	3.9 W
product extension / optional / backup battery	No
ambient conditions	

during operation	0 70 °C
 for vertical installation / during operation 	0 50 °C
 for horizontally arranged busbars / during operation 	0 70 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
relative humidity	
•	95 %
 at 25 °C / without condensation / during operation / maximum 	90 70
protection class IP	IP20
·	11 20
design, dimensions and weights	0 1 1 0 7 1 7 0 1 1 1 1 1
module format	Compact module S7-1500 double-wide
width	70 mm
height	147 mm
depth	129 mm
net weight	0.525 kg
fastening method	
 35 mm top hat DIN rail mounting 	No
S7-300 rail mounting	No
• S7-1500 rail mounting	Yes
	**
product features, product functions, product components	7 general
product function	
DynDNS client	No
number of units	
• note	Number of TIM per S7-1500: 1
wire length	
 with RS 232 interface / maximum 	6 m
 with RS 485 interface / maximum 	30 m
performance data / S7 communication	
number of possible connections / for S7 communication	
	122: anhyvia I AN
• maximum	132; only via LAN
with PG connections / maximum	4
with PG/OP connections / maximum	4
with OP connections / maximum	4
service	
 of SIMATIC communication / as server 	Yes
 SINAUT ST7 via S7 communication 	Yes
 PG/OP communication 	Yes
performance data / IT functions	
number of possible connections	
as server / by means of HTTP / maximum	2
as server / by means of HTTPS / maximum	2; 2 per Ethernet interface
as email client / maximum	1
performance data / telecontrol	
suitability for use	
 node station 	Yes
substation	Yes
TIM control center	Yes
control center connection	Systems with ST7, DNP3 and IEC 60870-5-101/104 protocol
 by means of a permanent connection 	Systems with ST7, DNP3 and IEC 60870-5-101/104 protocol
protocol / is supported	
• DNP3	Yes
• IEC 60870-5	Yes
SINAUT ST1 protocol	No
 SINAUT ST7 protocol 	Yes
Modbus RTU	No
product function / data buffering if connection is aborted	Yes; 100000 data telegrams (ST7) or 250000 events (IEC 60870-5 / DNP3)
number of data points per station / maximum	3000
number of DNP3 masters	
for Ethernet / maximum	4

product fination / MB supports - nende firmware update - nende firmware - nende firmware - nende firmware update - nende firmw	• with RS 232 interface / maximum	4
Transmission format • for SINALT STT protocol with polling or spontaneous / 10-bit of 11-bit operating mode for scanning of data transmission • with dedicated line for scanning of data transmission • with dedicated line for scanning of data transmission • with dedicated line for with SINAUT ST7 protocol • with dail-up network / with SINALT ST7 protocol • with dail-up network / with SINALT ST7 protocol • for SINAUT ST7 protocol • for SINAUT ST7 protocol • for SINAUT ST7 protocol • grand download with SINATIC STEP 7 product function • rongram download with SINATIC STEP 7 product function / mine general, configuration, engineering product function / Milb support • remote configuration • SNAMP v1 • SNAMP v2 • SNAMP v3 • SNAMP v3 • SNAMP v3 • CPCP • LLDP • Or CPU configuring / required / SINAUT TD7 block library for CPU • for CPU configuring / required / SINAUT TD7 block library for CPU • for CPU configuring / required / SINAUT ST7 configuration software • required • (SNAM - device-specific information • (AM - higher level designation/ocation designation • (AM - higher level designation/ocation designation • (AM - individe reveal designation/ocation designation • (AM - higher level designat		
spontaneous / 10-bit or 11-bit operating mode for scanning of data transmission • with dedicated line/radio link / with SINAUT ST7 protocol • with deli-up network / with SINAUT ST7 protocol • with deli-up network / with SINAUT ST7 protocol • with deli-up network / with SINAUT ST7 protocol • with deli-up network / with SINAUT ST7 protocol • or SINAUT ST7 protocol • or SINAUT ST7 protocol • proformance deary (observice) diagnosists function / online diagnosists with SINATIC STEP 7 • remote function • program download with SINATIC STEP 7 • remote configuration • remote configuration • remote configuration • remote configuration • syndaut / with support product function / Milb support • SINMP v1 • SINMP v1 • SINMP v2 • SINMP v3 • Yes • CDCP • LLDP • LLDP • Ves • CDCP • LLDP • Type • CPU configuration ordivare • required • for CPU configuring / required / SINAUT ST7 configuration software • required • for CPU configuring / required / SINAUT ST7 configuration software • Required • SINMP v3 • STEP 7 Professional V14 SP1 (TIA Portal) or higher No configuration software • required • for CPU configuring / required / SINAUT ST7 configuration software for PG storage location of V1 TIM configuration data identification & maintenance function • IAM1 – higher level designation/location designation • IAM2 – installation of till • Londing value value value value • Ves • ves • remote configuration of ves • remote configuration • SINAUT ST7 No configuration of V1 TIM configuration of till • Configuration of V1 TIM configuration of till • SINAUT ST7 No configuration value based diagnostics • Ves		
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● PPoE via DSL No product functions / security product function ● MSC client via GPRS modem with MSC capability Yes		
product functions / security product function • MSC client via GPRS modem with MSC capability Yes		
product function ■ MSC client via GPRS modem with MSC capability Yes		
MSC client via GPRS modem with MSC capability Yes		
	•	Yes

 is supported / MSC protocol 	Yes
with Virtual Private Network MSC / is supported	TCP/IP
key length / for MSC / with Virtual Private Network	128 bit
number of possible connections	
 as MSC client / with VPN connection 	1
as MSC server / with VPN connection	127
product functions / time	
product function / SICLOCK support	No
product function / pass on time synchronization	Yes
protocol / is supported	
• NTP	Yes
NTP (secure)	Yes
product component / hardware real time clock	No
product feature / hardware real time clock w. battery backup	No
time synchronization	
from NTP-server	Yes
from GPS-signal	No
 from control center 	Yes
 from mobile network provider 	No
• PC	No
manual setting	No
product functions / position detection	
product function	
 position detection with GPS 	No
 pass on position data 	No
standards, specifications, approvals / hazardous environ	nments
standards, specifications, approvals / hazardous environments of suitability / CCC / for hazardous zone according to GB standard	Yes Yes
certificate of suitability / CCC / for hazardous zone	
certificate of suitability / CCC / for hazardous zone according to GB standard	
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links	
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard further information / internet-Links Internet-Link • to web page: selection aid TIA Selection Tool	Yes http://www.siemens.com/tia-selection-tool
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