SIEMENS

Data sheet

6AG1543-1MX00-7XE0

product type designation



SIPLUS TIM 1531 IRC

SIPLUS TIM 1531 IRC based on 6GK7543-1MX00-0XE0 with conformal coating, -40...+70 °C, communications module for SIMATIC S7-1500, S7-400, S7-300 with SINAUT ST7 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

Figure similar

1 4110	
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	
ambient temperature	
 for vertical installation / during operation 	-40 +50 °C
• for horizontally arranged busbars / during operation	-40 +70 °C

during storage	-40 +70 °C
during storage 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	
with condensation / according 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	
 conformity according to EN 60721-3-3 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
 conformity according 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.
• conformity according to EN 60721-3-6	Yes
resistance to mechanically active substances	
 conformity according 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.
• conformity according 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 / according 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 / according 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 according to IPC-CC-830A	Yes; Conformal coating, class A
protection class IP	IP20
design, dimensions and weights	
design, difficults and weights	
module format	Compact module S7-1500 double-wide
	Compact module S7-1500 double-wide 70 mm
module format	·
module format width	70 mm
module format width height	70 mm 147 mm
module format width height depth	70 mm 147 mm 129 mm
module format width height depth net weight	70 mm 147 mm 129 mm 0.525 kg
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • S7-300 rail mounting	70 mm 147 mm 129 mm 0.525 kg No
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • S7-300 rail mounting • S7-1500 rail mounting	70 mm 147 mm 129 mm 0.525 kg No No Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • S7-300 rail mounting	70 mm 147 mm 129 mm 0.525 kg No No Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • \$7-300 rail mounting • \$7-1500 rail mounting product features, product functions, product components / general product function	70 mm 147 mm 129 mm 0.525 kg No No Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • S7-300 rail mounting • S7-1500 rail mounting product features, product functions, product components / gen	70 mm 147 mm 129 mm 0.525 kg No No Yes
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • \$7-300 rail mounting • \$7-1500 rail mounting product features, product functions, product components / general product function	70 mm 147 mm 129 mm 0.525 kg No No Yes neral
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module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • \$7-300 rail mounting • \$7-1500 rail mounting product features, product functions, product components / get product function • DynDNS client number of units • note wire length	70 mm 147 mm 129 mm 0.525 kg No No Yes neral No Number of TIM per S7-1500: 1
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • \$7-300 rail mounting • \$7-1500 rail mounting product features, product functions, product components / ger product function • DynDNS client number of units • note	70 mm 147 mm 129 mm 0.525 kg No No Yes neral
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • \$7-300 rail mounting • \$7-1500 rail mounting product features, product functions, product components / get product function • DynDNS client number of units • note wire length • with RS 232 interface / maximum • with RS 485 interface / maximum	70 mm 147 mm 129 mm 0.525 kg No No Yes neral No Number of TIM per S7-1500: 1
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • S7-300 rail mounting • S7-1500 rail mounting product features, product functions, product components / ger product function • DynDNS client number of units • note wire length • with RS 232 interface / maximum • with RS 485 interface / maximum performance data / S7 communication	70 mm 147 mm 129 mm 0.525 kg No No Yes neral No Number of TIM per S7-1500: 1
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • \$7-300 rail mounting • \$7-1500 rail mounting product features, product functions, product components / get product function • DynDNS client number of units • note wire length • with RS 232 interface / maximum • with RS 485 interface / maximum	70 mm 147 mm 129 mm 0.525 kg No No Yes neral No Number of TIM per S7-1500: 1
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • S7-300 rail mounting • S7-1500 rail mounting product features, product functions, product components / ger product function • DynDNS client number of units • note wire length • with RS 232 interface / maximum • with RS 485 interface / maximum performance data / S7 communication	70 mm 147 mm 129 mm 0.525 kg No No Yes neral No Number of TIM per S7-1500: 1
module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • \$7-300 rail mounting • \$7-1500 rail mounting product features, product functions, product components / get product function • DynDNS client number of units • note wire length • with RS 232 interface / maximum • with RS 485 interface / maximum performance data / \$7 communication number of possible connections / for \$7 communication	70 mm 147 mm 129 mm 0.525 kg No No Yes neral No Number of TIM per S7-1500: 1 6 m 30 m
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module format width height depth net weight fastening method • 35 mm top hat DIN rail mounting • \$7-300 rail mounting • \$7-1500 rail mounting product features, product functions, product components / get product function • DynDNS client number of units • note wire length • with RS 232 interface / maximum • with RS 485 interface / maximum performance data / \$7 communication number of possible connections / for \$7 communication • maximum • with PG connections / maximum • with PG/OP connections / maximum • with OP connections / maximum service • of SIMATIC communication / as server • SINAUT \$T7 via \$7 communication • PG/OP communication	70 mm 147 mm 129 mm 0.525 kg No No Yes Teral No Number of TIM per S7-1500: 1 6 m 30 m 132; only via LAN 4 4 4 4 Yes Yes

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pusiformance data / felecontrol substition / ves	•	
suitability for use		
- substation - TIM control center - Control control conter - Control control conter - Control	suitability for use	
* TMX control center Yes Control center connection Systems with ST7, DNP3 and IEC 60870-5-101/104 protocol	node station	Yes
control center connection • by means of a permanent connection • by means of a permanent connection protocol / is supported • NNP3 • SEO 60870-5 • SINAUT STT protocol • Modebus RTU product function / data buffering if connection is aborted • NNP3 • SINAUT STT protocol • Modebus RTU product function / data buffering if connection is aborted • With RS 232 interface / maximum • with RS 232 interface / maximum • with RS 232 interface / maximum • for SINAUT STT protocol • With Gelotatur / buffered message firam ememory • With RS 232 interface / maximum • for SINAUT STT protocol with polining or spontaneous / 10-bit or 11-bit	substation	Yes
by means of a permanent connection protocol / is supported	TIM control center	Yes
protocol / is supported • DNP3 • IEC 60870-5 • SINAUT STI protocol • Modbus RTU product function / data buffering if gennection is aborted rumber of data points per station / maximum south RS 232 interface / maximum • with dedicated line/radio link / with SINAUT ST7 protocol • with dedicated line/radio link / with SINAUT ST7 protocol • with dedicated line/radio link / with SINAUT ST7 protocol • with dedicated line/radio link / with SINAUT ST7 protocol • with dedicated line/radio link / with SINAUT ST7 protocol • with dail up network / with SINAUT ST7 protocol • with dail up network / with SINAUT ST7 protocol • with dail up network / with SINAUT ST7 protocol • with dail up network / with SINAUT ST7 protocol • with dail up network / with SINAUT ST7 protocol • with dail up network / with SINAUT ST7 protocol • remote firmware update • remote configuration • program download with SINATIC STEP 7 • remote firmware update • remote configuration • program download with SINATIC STEP 7 • remote firmware update • remote configuration • program download with SINATIC STEP 7 • remote firmware update • remote configuration • program download with SINATIC STEP 7 • remote firmware update • remote configuration • program download with SINATIC STEP 7 • remote firmware update • remote onlique disposition • program download with SINATIC STEP 7 • remote firmware update • remote onlique disposition • program download with SINATIC STEP 7 • remote firmware update • remote onlique disposition • program download with SINATIC STEP 7 • remote firmware update • remote configuration • program download with SINATIC STEP 7 • remote firmware update • remote configuration • program download with SINATIC STEP 7 • remote firmware update • remote configuration • remote firmware update • remot	control center connection	Systems with ST7, DNP3 and IEC 60870-5-101/104 protocol
ONP3	 by means of a permanent connection 	Systems with ST7, DNP3 and IEC 60870-5-101/104 protocol
EIC 60870-5 SINAUT ST7 protocol Yes No	protocol / is supported	
SINAUT ST1 protocol SINAUT ST2 protocol SINAUT ST2 protocol Modous RTU No product function / data buffering if connection is aborted Ves; 100000 data telegrams (ST7) or 250000 events (IEC 60870-5 / DNP3) number of data points per station / maximum number of DNP3 masters of Ethernet / maximum 4 ***unt RS 222 interface / maximum **product feature / buffered message frame memory Transmission fromat **or SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit operating mode for scanning of data fransmission **with decladed interfacio link / with SINAUT ST7 protocol **with declarated link / with SINAUT ST7 protocol **or with declarated link / with SINAUT ST7 protocol **or with declarated link / with SINAUT ST7 protocol **or for SINAUT ST7 protocol **or for SINAUT ST7 protocol **or for sinaut state of the	• DNP3	Yes
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• Modbus RTU 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 number of DNP3 masters • for Ethernet / maximum • with RS 232 interface / maximum • with RS 232 interface / maximum • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit Operating mode for scarning of data transmission • with dedicated inerfacile link / with SINAUT ST7 protocol • with diably network / with SINAUT ST7 protocol • with diably network / with SINAUT ST7 protocol • with diably network / with SINAUT ST7 protocol • with diably network / with SINAUT ST7 protocol • with diably network / with SINAUT ST7 protocol • with diably network / with SINAUT ST7 protocol • with diably network / with SINAUT ST7 protocol • with diably network / with SINAUT ST7 protocol • with diably network / with SINATIC STEP 7 product function online diagnostics with SIMATIC STEP 7 • remote firmware update • program download with SINATIC STEP 7 • remote firmware update • remote onfiguration • remote onfiguration • remote firmware update • remote onfiguration on yes • required • some yes • required • some yes • required • some yes • required • for CPU configuring / required / SINAUT TD7 block ibrary • recordinguration software • required • for CPU configuring / required / SINAUT ST7 configuration • software for PG • storage location / of TIM configuration data • for CPU configuring / required / SINAUT ST7 configuration • likMo - device-specific information • likM	 SINAUT ST1 protocol 	No
product function / data buffering if connection is aborted number of PMS masters	 SINAUT ST7 protocol 	Yes
number of data points per station / maximum number of DNP3 masters of the Themet / maximum with RS 232 interface / maximum with RS 232 interface / maximum frout feature / buffered message frame memory yes transmission format of the SINAUT STP protocol with polling or spontaneous / 10-bit or 11-bit operating mode for scanning of data transmission with dedicated line/radio link / with SINAUT STP protocol with dial-up network / with SINAUT STP protocol with dial-up network / with SINAUT STP protocol animing distance of for SINAUT STP protocol Apartomance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 yes product function operating moder data / teleservice diagnostics function / MIB support product function / MIB support operating function / MIB support yes remote function / MIB support yes remote configuration product function / MIB support yes product function / MIB support yes configuration software required SIMP Y1 SIMMP Y3 OCP Ves ULDP configuration software required for CPU configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT TD7 block library for CPU of PC configuring / required / SINAUT ST7 configuration of Nava Rem	Modbus RTU	No
number of DNP3 masters • for Ethernet / maximum • with RS 232 interface / maximum product feature / buffered message frame memory Yes transmission format • 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 protocol • with dial-up network / with SINAUT ST7 protocol • with dial-up network / with SINAUT ST7 protocol • with dial-up network / with SINAUT ST7 protocol • with dial-up network / with SINAUT ST7 protocol • for SINAUT ST7 protocol • for SINAUT ST7 protocol • for SINAUT ST7 protocol • portomatic data / tolescrytice diagnostics function or rolline diagnostics with SIMATIC STEP 7 yes product function • program download with SIMATIC STEP 7 • remote firmware update • remote configuration • product function / Mills support • Remote configuration • Name Y3 • CPC • LLDP configuration software • required • for CPU configuring / required / SINAUT TD7 block library for CPU • for PG configuring / required / SINAUT ST7 configuration • liaM0 - device-specific information • liaM0 - device-specific information • liaM1 - higher level designation location designation • liaM3 - comment Pes product functions / diagnostics product functions / forting nostics product function / web-based diagnostics Product functions / routing service / routing / note product function / note	product function / data buffering if connection is aborted	Yes; 100000 data telegrams (ST7) or 250000 events (IEC 60870-5 / DNP3)
• for Ethernet / maximum • with RS 232 interface / maximum product feature / buffered message frame memory transmission format • for SINAUT ST7 protocol with polling or spontaneous / 10-bit or 11-bit operating mode for scanning of data transmission • with dedicated line/fadio link / with SINAUT ST7 protocol • with dedicated line/fadio link / with SINAUT ST7 protocol harming distance • for SINAUT ST7 protocol 4 performance data / teleservice diagnostics function / online diagnostics with SINATIC STEP 7 verende firmware update • remote configuration • program download with SINATIC STEP 7 • remote firmware update • remote configuration • product functions / management, configuration, engineering product function / MIB support yes product function / MIB support yes protocol / is supported • SNMP v1 • SNMP v3 • DCP • LLDP configuration software • required • for CPU configuring / required / SINAUT TD7 block library for CPU • for PG configuring / required / SINAUT TT0 block library for CPU • for CPU configuring / required / SINAUT TT0 block library for CPU • for G MB maintenance function • I&M0 - device-specific information • I&M3 - comment yes product functions / diagnostics product functions / financials pr		3000
with RS 232 interface / maximum product feature / buffered message frame memory transmission format		
product feature / buffered message frame memory transmission format • 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 protocol • with dial-up network / with SINAUT ST7 protocol • with dial-up network / with SINAUT ST7 protocol hamming distance • for SINAUT ST7 protocol 4 performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 • remote firmware update • remote configuration • product function / MIB support product function / MIB support product function / MIB support • SINMP v1 • SINMP v1 • SINMP v3 • CPC • LLDP • LLDP configuration software • required • for CPU configuring / required / SINAUT TD7 block library for CPU • for PG configuring / required / SINAUT ST7 configuration software for PG storage location / of TIM configuration data identification & maintenance function • I&M0 - device specific information • I&M0 - device specific information • I&M0 - device specific information • I&M1 - higher level designation/location designation • I&M2 - installation date • IsaM3 - comment • Yes product function / web-based diagnostics product function / roting service / routing / rote PF outing up to 1 Mbps		
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10-bit or 11-bit operating mode for scanning of data transmission • with dedicated line/radio link / with SINAUT ST7 protocol • with dedicated line/radio link / with SINAUT ST7 protocol • with dedicated line/radio link / with SINAUT ST7 protocol hamming distance • for SINAUT ST7 protocol 4 performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 product function • program download with SIMATIC STEP 7 • remote infirmware update • remote configuration product function / MIB support product function / MIB support product function / MIB support protocol / is supported • SNMP v1 • SNMP v3 • DCP • LLDP configuration software • required • for CPU configuring / required / SINAUT TD7 block library for CPU • for PG configuriting / required / SINAUT ST7 configuration software for PG storage location / of TIM configuration data identification & maintenance function • I&M1 - bigher level designation/location designation • I&M2 - device-specific information • I&M3 - comment product functions / diagnostics product functions / diagnostics product functions / verbased diagnostics		v.
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with dial-up network / with SINAUT ST7 protocol hamming distance for SINAUT ST7 protocol for SINAUT ST7 protocol performance data / teleservice diagnostics function / online diagnostics with SIMATIC STEP 7 product function program download with SIMATIC STEP 7 remote firmware update remote configuration product functions / management, configuration, engineering product function / MIB support SNMP v1 SNMP v1 SNMP v3 PDCP LLDP ves configuration software required for CPU configuring / required / SINAUT ST7 configuration software for PG storage location / of TIM configuration data (identification & maintenance function i &MO - device-specific information i &MO - device-specific in		Polling, polling with time slot procedure
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Frequired	product function	Yes Yes Yes Yes Yes Yes
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I&M2 - installation date I&M3 - comment Yes product functions / diagnostics product function / web-based diagnostics Yes product functions / routing service / routing / note product function IP routing up to 1 Mbps	product function	Yes
I&M3 - comment Yes product functions / diagnostics product function / web-based diagnostics Yes product functions / routing service / routing / note IP routing up to 1 Mbps product function	product function	Yes
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product function / web-based diagnostics product functions / routing service / routing / note product function IP routing up to 1 Mbps	product function	Yes
product functions / routing service / routing / note product function IP routing up to 1 Mbps	product function	Yes
service / routing / note IP routing up to 1 Mbps product function	product function	Yes
product function	product function	Yes Yes Yes Yes Yes Yes Yes Yes
	product function	Yes Yes Yes Yes Yes Yes Yes Yes
• static IP routing Yes	product function	Yes Yes Yes Yes Yes Yes Yes Yes
	product function	Yes Yes Yes Yes Yes Yes Yes Yes

static IP routing IPv6	Yes
dynamic IP routing	No
dynamic if routing dynamic IP routing IPv6	No
	NO
protocol / is supported	Al-
• RIP v1	No
• RIPv2	No
RIPnG for IPv6	No
OSPFv2	No
OSPFv3 for IPv6	No
• VRRP	No
VRRP for IPv6	No
• BGP	No
• PPP	No
PPoE via DSL	No
product functions / security	
product function	
MSC client via GPRS modem with MSC capability	Yes
protocol	
 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
	No
product feature / hardware real time clock w. battery backup time synchronization	INU
• from NTP-server	Yes
• from GPS-signal	No W
• 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
further information / internet links	
internet link	
 to web page: selection aid 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	
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