## SIEMENS

## Data sheet

## 6GK7343-1EX30-0XE0

product type designation



## CP 343-1

Communications processor CP 343-1 for connection of SIMATIC S7-300 to Industrial Ethernet via ISO and TCP/IP, PROFINET IO controller or PROFINET IO device, integrated 2-port switch ERTEC 200, S7 communication, fetch/write, SEND/RECEIVE RFC1006, multicast, DHCP, NTC- CPU sync, with and without diagnostics, initialization via LAN, 2x RJ45 connection for LAN with 10/100 Mbit/s.

transfer rate		
transfer rate		
<ul> <li>at the 1st interface</li> </ul>	10 100 Mbit/s	
interfaces		
number of interfaces / according to Industrial Ethernet	2	
number of electrical connections		
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	2	
<ul> <li>for power supply</li> </ul>	1	
type of electrical connection		
<ul> <li>of Industrial Ethernet interface</li> </ul>	RJ45 port	
<ul> <li>at the 1st interface / according to Industrial Ethernet</li> </ul>	RJ45 port	
type of electrical connection		
<ul> <li>for power supply</li> </ul>	2-pole plugable terminal block	
supply voltage, current consumption, power loss		
type of voltage / of the supply voltage	DC	
supply voltage / 1 / from backplane bus	5 V	
supply voltage	24 V	
supply voltage / external	24 V	
supply voltage / external / at DC / rated value	24 V	
relative positive tolerance / at DC / at 24 V	20 %	
relative negative tolerance / at DC / at 24 V	15 %	
consumed current		
<ul> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	0.2 A	
<ul> <li>from external supply voltage / at DC / at 24 V / typical</li> </ul>	0.16 A	
<ul> <li>from external supply voltage / at DC / at 24 V / maximum</li> </ul>	0.2 A	
power loss [W]	5.8 W	
ambient conditions		
ambient temperature		
<ul> <li>for vertical installation / during operation</li> </ul>	0 40 °C	
<ul> <li>for horizontally arranged busbars / during operation</li> </ul>	0 60 °C	
during storage	-40 +70 °C	
during transport	-40 +70 °C	
relative humidity		
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %	
protection class IP	IP20	
design, dimensions and weights		
module format	Compact module S7-300 single width	
width	40 mm	

height	125 mm
depth	120 mm
net weight	0.22 kg
fastening method	
S7-300 rail mounting	Yes
performance data / open communication	
number of possible connections / for open communication / by	16
means of SEND/RECEIVE blocks / maximum	
data volume	
<ul> <li>as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	8 Kibyte
<ul> <li>as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	2 Kibyte
number of Multicast stations	16
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	16
performance data / multi-protocol mode	
number of active connections / with multi-protocol mode	32
performance data / PROFINET communication / as PN IO control	ller
number of PN IO devices / on PROFINET IO controller / operable / total	32
number of external PN IO lines / with PROFINET / per rack	1
data volume	
<ul> <li>as user data for input variables / as PROFINET IO controller / maximum</li> </ul>	1 Kibyte
<ul> <li>as user data for output variables / as PROFINET IO controller / maximum</li> </ul>	1 Kibyte
<ul> <li>as user data for input variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul> <li>as user data for output variables per PN IO device / as PROFINET IO controller / maximum</li> </ul>	1433 byte
<ul> <li>as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
<ul> <li>as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum</li> </ul>	240 byte
performance data / PROFINET communication / as PN IO device	
product function / PROFINET IO device	Yes
data volume	
<ul> <li>as user data for input variables / as PROFINET IO device / maximum</li> </ul>	512 byte
<ul> <li>as user data for output variables / as PROFINET IO device / maximum</li> </ul>	512 byte
<ul> <li>as user data for input variables / for each sub-module as PROFINET IO device</li> </ul>	240 byte
<ul> <li>as user data for output variables / for each sub-module as PROFINET IO device</li> </ul>	240 byte
<ul> <li>as user data for the consistency area for each sub- module</li> </ul>	240 byte
number of submodules / per PROFINET IO-Device	32
performance data / telecontrol	
protocol / is supported	
• TCP/IP	Yes
product functions / management, configuration, engineering	
product function / MIB support	Yes
protocol / is supported	
• SNMP v1	Yes
• DCP	Yes
• LLDP	Yes

configuration software         STEP 7 Vis 4 SP2 or ingrer / STEP 7 Professional V11 (TIA Pontal) or ingrer           Letentication & maintenance function         Yes           • ISM1 - Ingriter level designation         Yes           product function / Ves based dispositios         Yes           product function / Ves based dispositios         Yes           product functions / dispositios         Yes           product functions / ves based dispositios         Yes           product functions / ves based dispositios         Yes           product functions / ves based disposition         Yes           product functions / ves based dispositions         No           extenduminy manager         No           product function         Yes           product function         Yes           product function         Yes           extenduminy function         Yes           product function         Yes           product function         Yes           product function / ves based displayed and/secone         Yes           extenduminy function / ves         Yes		
identification & martenance hundlin identification & martenance hundlin identification & martenance hundlin identification & identification i	configuration software	
• 4440 - device specific information     Yes       product function / web-based diagnotics     Yes       e-ordinguitation with STEP 7     Yes       product function / redundancy     Yes       product function / security     Yes       product function / security     Yes       ordinguitation / security     Yes       product function / pass on time synchronization     Yes       o and function / security     Yes       product function / security / security     Yes       ordinguitation / security / security     Yes       product function / security / security     Yes       ordinguitation / security     Yes       ordinguitation / security     Yes	required	STEP 7 V5.4 SP2 or higher / STEP 7 Professional V11 (TIA Portal) or higher
• Idex1 - Inighter level designation / ves       product functions / web-based diagnostics     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / security     Yes       product function / sec	identification & maintenance function	
product functions / diagnostics         Yes           product functions / awtich         Yes           product functions / awtich         Yes           • with RT PROFINET To witch         Yes           • awtich managed         No           • witch RT PROFINET To witch         Yes           product functions / redundancy         Product functions / redundancy           product functions / redundancy         Yes           ordination (information of the sequence	<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
product function / web-based diagnostics         Yes           product functions / wetch         Yes           product functions / wetch         Yes           product functions / wetch         Yes           product functions / redundancy         Yes           product functions / security         Yes           > obcolumg of communication via physical ports         No           • ACL - IP-based         Yes           product functions / security         Yes           product functions / supported         Yes           product functions / supported         Yes           product function / pass on time synchronization         Yes           product function / pass on time synchronization         Yes           product function / pass on time synchronization         Yes           o websits: Industrial communication         Y	<ul> <li>I&amp;M1 - higher level designation/location designation</li> </ul>	Yes
product function / switch         Yes           order feature / switch         Yes           order function         No           • with RT-PROFINET IO switch         Yes           order functions / redundancy         Yes           product function         regulardsmit           • redundancy manager         No           • ACL - IP-based         Yes           • ACL - IP-based for PLCrouting         No           product function         regulardsmitzed access           • Diocking for formunication or aphysical ports         Yes           • Diocking for formunication or aphysical ports         Yes           • product function / SICLOCK support         Yes           • Initial reformation / inter or aphysical ports         Yes           • NP         Yes           standards sported         Standards           • to weba	product functions / diagnostics	
product feature / switch         Yes           product feature / switch         Yes           exatch-managed         No           • with IRT / PROFINET IO switch         Yes           • configuration with STEP 7         Yes           product functions / redundancy         Product functions / redundancy           product functions / redundancy         Yes           • ring redundancy         Yes           product functions / security         No           product functions / security         No           product functions / security         Yes           product function / Fased         Yes            ACL - IP-based            ACL - IP-based for PC/Crouting            No           > switch-fit from required services         Yes           > blocking of communication via physical ports         Yes           product function / SICLOCK support         Yes           product function / SICLOCK / for hazardous zone according to         Yes           Product function / SICLOCK / for hazardous zone according to         Yes            Intermet link         Inter/Warw stemens.com/Maselecton.lod            to web page: selection aid TIA Selection Tool         Inttr/Warw stemens.com/Maselecton.lod      <	product function / web-based diagnostics	Yes
product function     No       • with IPT RPG FNET 10 switch     Yes       • configuration with STEP 7     Yes       product function     ining redundancy       product function     redundancy       • redundancy manager     No       product functions     redundancy       product functions     redundancy       product functions     feasurity       product functions     feasurity       product functions     No       • ACL - IP-Based     Yes       • ACL - IP-Based     Yes       • ACL - IP-Based     Yes       • blocking of communication valphysical ports     Yes       • blocking of communication valphysical ports     Yes       • product function / SILLOCK support     Yes       product function / SILLOCK support     Yes       product function / SILLOCK support     Yes       • Introduct function / Introduct Introduct suprotonnates    <	product functions / switch	
• switch-managed         No           • with IRT /PROFINET IO switch         Yes           • configuration with STEP 7         Yes           product functions / redundancy         Yes           • redundancy manager         No           • product functions / redundancy Protocol (MRP)         Yes           product functions / security         Yes           product functions / security         Product functions / security           product functions / security         Yes           • ACL - IP-based for PLCrouting         No           • ACL - IP-based for PLCrouting         No           • product function / security         Yes           • Coll of on-required services         Yes           • blocking of communication via physical ports         Yes           • blocking of communication via physical ports         Yes           product function / Isso on the synchronization         Yes           product function / Isso on the synchronization         Yes           standards, specifications, approvals / hazardous environments         Yes           certificate of subality / CCC / for hazardous zone according to         Yes           cistandard         to web page: selection aid TIA Selection Tool         http://www.siemens.com/simatic.met           to webate: Industy Juali         http://www.si	product feature / switch	Yes
• with IRT / PROFINET IO switch         Yes           • configuration with STEP 7         Yes           product function	product function	
• with IRT / PROFINET IG switch         Yes           • configuration with STEP 7         Yes           product function         -           product function         -           • ring redundancy         Yes           • redundancy manager         No           • redundancy function         -           • redundancy manager         No           • redundancy function         -           • redundancy	<ul> <li>switch-managed</li> </ul>	No
configuration with STEP 7     Yes  product functions / redundancy     ing redundancy     ing redundancy     redundancy     ing redundancy     ing redundancy     redundancy     redundancy     redundancy     redundancy     redundancy     redundancy     Yes  product function     assported / Media Redundancy Protocol (MRP)     Yes  product function     assported / Media Redundancy Protocol (MRP)     Yes  product function     assported / Media Redundancy Protocol (MRP)     Yes  product function     assword protection for Web applications     No     ACL - IP-based     Yes     blocking of communication via physical ports     Yes     blocking of communication via physical ports     Yes     blocking of communication via physical ports     Yes     product function / SIQLOCK support     Yes     testificate of suitability / CCC / for hazardous antercomments     detificate of suitability / CCC / for hazardous can eaccording to     Standards, specifications / interret link     to website: Industria communication     to website: Industry Online Support     to website: Industria communication     to website: Industria		Yes
product functions / redundancy         Yes           in rig redundancy manager         No           protoci / is supported / Media Redundancy Protocol (MRP)         Yes           product functions / security         Protocol / is supported / Media Redundancy Protocol (MRP)           Yes         Product functions / security           product functions / security         Yes           product functions / security         Yes           is supported / for non-regular services         Yes           is blocking of communication via physical ports         Yes           is blocking of communication via physical ports         Yes           iblocking of communication via physical ports         Yes           product function / Internet         Yes           product function / Staco mine synchronization         Yes           product function / pass on time synchronization         Yes           standards, specifications, approvals / hazardous anvironments         Ex nA IIC T4 Gc           certificate of suitability / CCC / for hazardous according to Uta//www.siemens.com/lia.selection.bod <td< td=""><td></td><td>Yes</td></td<>		Yes
product function     Yes       • redundancy     Yes       protocol /is supported / Media Redundancy Protocol (MRP)     Yes       product function     • password protection for Web applications     No       • ACL - IP-based     Yes       • ACL - IP-based for PLC/routing     No       • switch-off of non-required services     Yes       • blocking of communication via physical ports     Yes       • log file for unauthorized access     No       product function / filmo     protect functions / filmo       product function / SICLOCK support     Yes       protocol / is supported     Yes       protocol / is supported     Yes       protocol / is supported     Yes       standards, specifications, approvals / hazardous environments     Yes       certificate of subbiblity / CCC / for hazardous according to     Yes       is web page: selection and TA Selection Tool     bits //www.siemers.com/lisselection.tool       is to website: Industrial communication     bits //www.siemers.com/lisselection.t		
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product function         • password protection for Web applications         No           • ACL - IP-based         Yes         • ACL - IP-based for PLCrouting         No           • witch-off of non-required services         Yes         • blocking of communication via physical ports         Yes           • log life for unauthorized access         No         •         •           product function / SICLOCK support         Yes         •           product function / pass on time synchronization         Yes         •           product function / pass on time synchronization         Yes         •           standards, spacifications, approvals / hazardous anvironments         •         •           certificate of suitability / CCC / for hazardous zone according to         Yes         •           Standards, spacifications, approvals / hazardous and center         •         •         No           • oweb page: selection aid TIA Selection Tool         •         •         •         •           • to website: industrial communication         •         •         •         •         •           • to website: industrial communication         •         •         •         •         •           • to website: industrial communication         •         •         •         •         •		
• password protection for Web applications       No         • ACL - IP-based       Yes         • ACL - IP-based for DLC/routing       No         • exite-holf of non-required services       Yes         • locking of communication via physical ports       Yes         • of the for unauthonized access       No         product function / SILCOCK support       Yes         product function / Jass on time synchronization       Yes         product function / pass on time synchronization       Yes         product function / pass on time synchronization       Yes         standards, specifications, approvals / hezardous environments       Certificate of suitability / CCC / for hazardous environments         certificate of suitability / CCC / for hazardous cancording to       Yes         standards, specifications, approvals / hezardous environments       Ex nA IIC T4 Gc         further information / internet links       Interviron / internet link         • to website: industrial communication       httb://www.siemens.com/liaselection-tool         • to website: industry Mail       http://www.siemens.com/liaselection-fool         • to website: industry Mail       http://www.siemens.com/liaselection of pains, southons, with industrial security functions hat support in the source operation of pains, southons, with industrial security functions hat support in the source operation of pains, southoldechat         • to		
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• ACL - IP-based for PLC/routing       No         • witch-off of non-required services       Yes         • blocking of communication via physical ports       Yes         • olig file for unauthorized access       No         product function / SLOCK support       Yes         product function / SLOCK support       Yes         product function / SLOCK support       Yes         product function / pass on time synchronization       Yes         product functions, paperola       -         • NTP       Yes         standards, specifications, approvals / hazardous environments       -         certificate of suitability / CCC / for hazardous zone according to       Ges atomada         es marking       Ex nA IIC T4 Gc         further information / internet links       -         internet link       -         • to website: Industrial communication       http://www.siemens.com/ila.selection.tool         • to website: Industrial communication       http://www.siemens.com/ila.selection.son         • to website: Industrial countly Onl		
• switch-off of non-required services     Yes       • blocking of communication via physical ports     Yes       • log file for unauthorized access     No       product functions / time        product function / SICLOCK support     Yes       product function / SICLOCK support     Yes       protocol / is supported     Yes       orticate of suitability / CCC / for hazardous environments        certificate of suitability / CCC / for hazardous according to GB standard     Yes       o as marking     Ex nA IIC T4 Gc       turther information / internet link        • to web page: selection aid TIA Selection Tool     http://www.siemens.com/lia_selection_tool       • to website: Industrial communication     http://www.siemens.com/lia_selection_tool       • to website: Industrial orgeners     http://www.siemens.com/lia_selection_tool       • to website: Industrial orgeners     http://www.siemens.com/lia_selection_tool       • to website:		
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product functions / time         Yes           product function / pass on time synchronization         Yes           protocol / is supported         Yes           • NTP         Yes           standards, specifications, approvals / hazardous environments         Yes           cettificate of suitability / CCC / for hazardous zone according to GB standard         Yes           as marking         Ex nA IIC T4 Gc           further information / internet links         Internet link           internet link         Internet link           • to website: Industrial communication         http://www.siemens.com/tia-selection-fool           • to website: Industrial communication         http://www.siemens.com/tia-selection-fool           • to website: Industry Mall         http://www.siemens.com/tia-selection-fool           • to website: Industry Mall         http://www.siemens.com/tidustry.siemens.com           • to website: Industry Online Support         http://www.siemens.com/ddb           • to website: Industry Online Support         http://www.siemens.com/simatic-net           • to website: Industry Online Support         http://www.siemens.com/ddb           • to website: Industry Online Support         http://www.siemens.com/simatic-net           • to website: Industry Online Support         http://www.siemens.com/simatic-net           http://www.siemens.com/industry.siemens.co		
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product function / pass on time synchronization       Yes         protocol / is supported       • NTP         standards, specifications, approvals / hazardous environments       Yes         certificate of suitability / CCC / for hazardous zone according to GB standard       Yes         e as marking       Ex nA IIC T4 Gc         further information / internet links       Internet link         internet link       http://www.siemens.com/fila-selection-tool         http://www.siemens.com/fila-selection-tool       http://www.siemens.com/fila-selection-tool         http://www.siemens.com/fila-selection-tool       http://www.siemens.com/fila-selection-tool         http://www.siemens.com/fila-selection-tool       http://www.siemens.com/fila-selection-tool         http://www.siemens.com/fila-selection-tool       http://www.siemens.com/fila-selection-tool         http://www.siemens.com/fila-selection-tool       http://www.siemens.com/fila-selection-tool         o website: Industry Mall       http://www.siemens.com/fila-selection-tool         o website: Industry Online Download Center       http://www.siemens.com/fila/selection         http://www.siemens.com/fila/selection       futp://www.siemens.com/fila/selection         security information       Siemens provides products and solutions with industrial security functions that security information         security information       Siemens provides products and solutions, inderego		
protocol / is supported       Yes         standards, specifications, approvals / hazardous environments       Press         certificate of suitability / CCC / for hazardous zone according to GB standard       Yes         as marking       Ex nA IIC T4 Gc         further information / internet links       Internet link         internet link       to web page: selection aid TIA Selection Tool         is to website: Industrial communication       http://www.siemens.com/simatic-net         is to website: Industry Mall       https://mall.industry.siemens.com         is to website: Information and Download Center       http://www.siemens.com/lides/siemens.com/bildb         is to website: Information and Download Center       http://www.siemens.com/lides/siemens.com/bildb         is to website: Industry Online Support       http://www.siemens.com/lideb         is website: Industry Online Support       http://www.siemens.com/lideb         security information       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 context and solutions. With this in mind, Siemens' products and solutions undergo continuous development. Siemens' products and solutions development of sensers products and solutions contrides. For the secure operation of Siemens products and solutions contrides. For the secure operation of Siemens products and solutions with this industrial security wist http://www.siemens.com/i		
• NTP         Yes           standards, specifications, approvals / hazardous environments		Yes
standards, specifications, approvals / hazardous environments         certificate of suitability / CCC / for hazardous zone according to       Yes         GB standard       Yes         • as marking       Ex nA IIC T4 Gc         further information / internet links       internet link         • to web page: selection aid TIA Selection Tool       http://www.siemens.com/tia-selection-tool         • to website: Industrial communication       http://www.siemens.com/simatic-net         • to website: Information and Download Center       http://www.siemens.com/simatic/net         • to website: Information and Download Center       http://www.siemens.com/bilddb         • to website: Industry Online Support       http://www.siemens.com/bilddb         • to website: Industry Online Support       http://www.siemens.com/bilddb         • to website: Industry Online Support       http://www.siemens.com/cax         • to website: Industry Online Support       http://www.siemens.com/cax         • to website: Industry Online Support       http://www.siemens.com/cax         • security information       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. Third-party products that was bein use should also be considered. For more information about industrial security. visit thtp://www.siemens.com/idustrialsecurity. To stay informed about		
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