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## Data sheet 6AG1343-1GX31-4XE0

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| **product type designation** | **CP 343-1 ADVANCED** |
| | ***spare part*** SIPLUS NET CP 343-1 Advanced based on 6GK7343-1GX31-0XE0 with conformal coating, 0…+60 °C, for connection of the SIMATIC S7-300 CPU to Ind. Ethernet; PROFINET IO controller and/or IO Device RT and RT and IRT IRT, MRP, PROFINET CBA; TCP/IP ISO, UDP, S7 communication, S5-compatible communication, (send/receive) with fetch/write with and without RFC 1006, multicast diagnostics extension,SNMP,DHCP, FTP client/server, email, Gigabit-SS1X RJ45 (10/100/1000); PROFINET interface 2x RJ45(10/100 Mbit) PROFINET CBA; security |




Figure similar

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| Technical Product Detail Page | https://i.siemens.com/1P6AG1343-1GX31-4XE0 |
| **transfer rate** | |
| transfer rate | |
| ● at the 1st interface | 10 ... 1000 Mbit/s |
| ● at the 2nd interface | 10 ... 100 Mbit/s |
| **interfaces** | |
| number of interfaces / according to Industrial Ethernet | 3 |
| number of electrical connections | |
| ● at the 1st interface / according to Industrial Ethernet | 1 |
| ● at the 2nd interface / according to Industrial Ethernet | 2 |
| ● for power supply | 1 |
| type of electrical connection | |
| ● at the 1st interface / according to Industrial Ethernet | RJ45 port |
| ● at the 2nd interface / according to Industrial Ethernet | RJ45 port |
| type of electrical connection | |
| ● 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 / 1 / from backplane bus | 5 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 | |
| ● from backplane bus / at DC / at 5 V / typical | 0.14 A |
| ● from external supply voltage / at DC / at 24 V / typical | 0.48 A |
| ● from external supply voltage / at DC / at 24 V / maximum | 0.62 A |
| power loss [W] | 14.7 W |
| **ambient conditions** | |
| ambient temperature | |
| ● for vertical installation / during operation | 0 ... 40 °C |
| ● for horizontally arranged busbars / during operation | 0 ... 60 °C |
| ● during storage | -40 ... +70 °C |
| ● during transport | -40 ... +70 °C |
| installation altitude / at height above sea level / maximum | 5000 m |


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| 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** | |
| module format | Compact module |
| width | 80 mm |
| height | 125 mm |
| depth | 120 mm |
| net weight | 0.8 kg |
| fastening method | |
| ● S7-300 rail mounting | Yes |
| **performance data / open communication** | |
| number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum | 16 |
| data volume | |
| ● as user data per ISO connection / for open communication / by means of SEND/RECEIVE blocks / maximum | 8 Kibyte |
| ● as user data per ISO on TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum | 8 Kibyte |
| ● as user data per TCP connection / for open communication / by means of SEND/RECEIVE blocks / maximum | 8 Kibyte |
| ● as user data per UDP connection / for open IE communication / by means of SEND/RECEIVE blocks / maximum | 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 | 48 |
| **performance data / IT functions** | |
| number of possible connections | |
| ● as client / by means of FTP / maximum | 10 |
| ● as server / by means of FTP / maximum | 2 |


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| number of possible connections | |
| ● as server / by means of HTTP / maximum | 4 |
| ● as email client / maximum | 1 |
| data volume / as user data for email / maximum | 8 Kibyte |
| storage capacity / of the user memory | |
| ● as flash memory file system | 28 Mibyte |
| ● as RAM | 30 Mibyte |
| number of possible write cycles / of the flash memory cells | 100000 |
| **performance data / PROFINET communication / as PN IO controller** | |
| product function / PROFINET IO controller | Yes |
| number of PN IO devices / on PROFINET IO controller / operable / total | 128 |
| number of PN IO IRT devices / on PROFINET IO controller / operable | 128 |
| number of external PN IO lines / with PROFINET / per rack | 1 |
| data volume | |
| ● as user data for input variables / as PROFINET IO controller / maximum | 4 Kibyte |
| ● as user data for output variables / as PROFINET IO controller / maximum | 4 Kibyte |
| ● as user data for input variables per PN IO device / as PROFINET IO controller / maximum | 1433 byte |
| ● as user data for output variables per PN IO device / as PROFINET IO controller / maximum | 1433 byte |
| ● as user data for input variables per PN IO device / for each sub-module as PROFINET IO controller / maximum | 240 byte |
| ● as user data for output variables per PN IO device / for each sub-module as PROFINET IO controller / maximum | 240 byte |
| **performance data / PROFINET communication / as PN IO device** | |
| product function / PROFINET IO device | Yes |
| data volume | |
| ● as user data for input variables / as PROFINET IO device / maximum | 1024 byte |
| ● as user data for output variables / as PROFINET IO device / maximum | 1024 byte |
| ● as user data for input variables / for each sub-module as PROFINET IO device | 240 byte |
| ● as user data for output variables / for each sub-module as PROFINET IO device | 240 byte |
| ● as user data for the consistency area for each sub-module | 240 byte |
| number of submodules / per PROFINET IO-Device | 32 |
| **performance data / PROFINET CBA** | |
| number of remote connection partners / with PROFINET CBA | 64 |
| number of connections / with PROFINET CBA / total | 1000 |
| data volume | |
| ● as user data for digital inputs / with PROFINET CBA / maximum | 8 Kibyte |
| ● as user data for digital outputs / with PROFINET CBA / maximum | 8 Kibyte |
| ● as user data for arrays and data types / in the case of acyclic transmission / with PROFINET CBA / maximum | 8 Kibyte |
| ● as user data for arrays and data types / with PROFINET CBA / with cyclical transfer / maximum | 250 byte |
| ● as user data for arrays and data types / with PROFINET CBA / in the case of local interconnection / maximum | 2400 byte |
| **performance data / PROFINET CBA / remote interconnection / with acyclic transfer** | |
| update time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA | 100 ms |
| number of remote connections to input variables / in the case of acyclic transmission / with PROFINET CBA / maximum | 128 |
| number of remote connections to output variables / in the case of acyclic transmission / with PROFINET CBA / maximum | 128 |
| data volume | |
| ● as user data for remote interconnections with input | 8 Kibyte |


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| variables / in the case of acyclic transmission / with PROFINET CBA | |
| ● as user data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA | 8 Kibyte |
| **performance data / PROFINET CBA / remote interconnection / with cyclic transfer** | |
| update time / of the remote interconnections / with cyclical transfer / with PROFINET CBA | 8 ms |
| number of remote connections to input variables / with PROFINET CBA / with cyclic transfer / maximum | 200 |
| number of remote connections to output variables / with cyclical transfer / with PROFINET CBA / maximum | 200 |
| data volume | |
| ● as user data for remote interconnections with input variables / with cyclical transfer / with PROFINET CBA / maximum | 2000 byte |
| ● as user data for remote interconnections with output variables / with cyclical transfer / with PROFINET CBA / maximum | 2000 byte |
| **performance data / PROFINET CBA / HMI variables via PROFINET / acyclic** | |
| number of connectable HMI stations / for HMI variables / in the case of acyclic transmission / with PROFINET CBA | 3 |
| update time / of the HMI variables / in the case of acyclic transmission / with PROFINET CBA | 500 ms |
| number of HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum | 200 |
| data volume / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum | 8 Kibyte |
| **performance data / PROFINET CBA / device-internal interconnections** | |
| number of internal connections / with PROFINET CBA / maximum | 256 |
| data volume / of the internal connections / with PROFINET CBA / maximum | 2400 byte |
| **performance data / PROFINET CBA / interconnections to constants** | |
| number of connections with constants / with PROFINET CBA / maximum | 200 |
| data volume / as user data for interconnections with constants / with PROFINET CBA / maximum | 4096 byte |
| **performance data / PROFINET CBA / PROFIBUS proxy functionality** | |
| product function / with PROFINET CBA / PROFIBUS proxy functionality | No |
| **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 |
| ● SNMP v3 | Yes |
| ● DCP | Yes |
| ● LLDP | Yes |
| configuration software | |
| ● required | STEP7 V5.5 SP2 HF1 or higher / STEP 7 Professional V12 (TIA Portal) or higher |
| ● for PROFINET CBA / required | SIMATIC iMap V3.0 SP4 and higher |
| identification & maintenance function | |
| ● I&M0 - device-specific information | Yes |
| ● I&M1 - higher level designation/location designation | Yes |
| **product functions / diagnostics** | |
| product function / web-based diagnostics | Yes |
| **product functions / switch** | |
| product feature / switch | Yes |
| product function | |
| ● switch-managed | No |


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| ● with IRT / PROFINET IO switch | Yes |
| ● configuration with STEP 7 | Yes |
| **product functions / redundancy** | |
| product function | |
| ● ring redundancy | Yes |
| ● redundancy manager | Yes |
| protocol / is supported / Media Redundancy Protocol (MRP) | Yes |
| **product functions / security** | |
| firewall version | stateful inspection |
| product function / with VPN connection | IPSec |
| type of encryption algorithms / with VPN connection | AES-256, AES-192, AES-128, 3DES-168, DES-56 |
| type of authentication procedure / with VPN connection | Preshared key (PSK), X.509v3 certificates |
| type of hashing algorithms / with VPN connection | MD5, SHA-1 |
| number of possible connections / with VPN connection | 32 |
| product function | |
| ● password protection for Web applications | Yes |
| ● ACL - IP-based | Yes |
| ● ACL - IP-based for PLC/routing | Yes |
| ● 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 / pass on time synchronization | Yes |
| protocol / is supported | |
| ● NTP | Yes |
| **further information / internet links** | |
| internet link | |
| ● to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to website: Industrial communication | https://www.siemens.com/simatic-net |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
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| Manufacturer Declaration | CE EG-Konf. | UKCA | China RoHS | KC | RCM |


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