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## Data sheet 6GK1161-3AA01

**Product type designation**

**CP 1613 A2**

Communications processor CP 1613 A2 PCI card (32 bit; 33MHz/ 66MHz; 3, 3V/5V universal key) for connection to Industrial Ethernet (10/100 Mbit/s) with ITP and RJ 45-connection via HARDNET-IE S7 and S7-Redconnect. Operating system support see SIMATIC NET software



| | |
|---|---|
| **Transmission rate** | |
| Transfer rate | 10 Mbit/s, 100 Mbit/s |
| **Interfaces** | |
| Number of electrical connections | |
| • at the 1st interface / acc. to Industrial Ethernet | 2 |
| Type of electrical connection | |
| • at the 1st interface / acc. to Industrial Ethernet | RJ45 port / 15-pin ITP connection |
| **Supply voltage, current consumption, power loss** | |
| Type of voltage / of the supply voltage | DC |
| Supply voltage | |
| • 1 / from backplane bus | 5 V |
| • 2 / from backplane bus | 12 V |
| Relative symmetrical tolerance / at DC | |
| • at 5 V | 5 % |
| • at 12 V | 5 % |
| Consumed current | |
| • 1 / from backplane bus / at DC / maximum | 0.45 A |


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| | |
|---|---|
| • 2 / from backplane bus / at DC / maximum | 0.5 A |
| Power loss [W] | 4 W |

| Permitted ambient conditions | |
|---|---|
| Ambient temperature | |
| • during operation | 5 ... 55 °C |
| • during storage | -20 ... +60 °C |
| • during transport | -20 ... +60 °C |
| Relative humidity / at 25 °C / without condensation / during operation / maximum | 95 % |
| Protection class IP | IP00 |

| Design, dimensions and weight | |
|---|---|
| Module format | PCI |
| Width | 21.6 mm |
| Height | 107 mm |
| Depth | 167 mm |
| Net weight | 140 g |
| Number of plug-in cards of same design / plug-in / per PC station | 4 |
| Number of units / Note | - |

| Performance data | |
|---|---|

| Performance data / open communication | |
|---|---|
| Software / for open communication / by means of SEND/RECEIVE / required | Yes, HARDNET-IE S7 (S7-1613) |
| Number of possible connections / for open communication / by means of SEND/RECEIVE / maximum | 120 |

| Performance data / S7 communication | |
|---|---|
| Software / for S7 communication / required | Yes, HARDNET-IE S7 (S7-1613) |
| Number of possible connections / for S7/PG communication / maximum | 120 |
| Number of possible connections / for optimized S7 communication / maximum | 40 |

| Performance data / multi-protocol mode | |
|---|---|
| Number of active connections / with multi-protocol mode | 120 |
| Number of configurable connections / per PC station | 207 |

| Performance data / PROFINET CBA | |
|---|---|
| Software / for PROFINET CBA communication / required | Yes, PN CBA OPC server |
| Number of remote connection partners / with PROFINET CBA | 228 |
| Number of connections / with PROFINET CBA / total | 10000 |


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| Product functions / management, configuration | |
|---|---|
| Product function / MIB support | Yes |
| Protocol / is supported | |
| • SNMP v1 | Yes |
| • SNMP v3 | No |
| • DCP | Yes |
| • LLDP | No |
| Configuration software / required | Included in the scope of delivery of the required software product |
| Configuration software / for PROFINET CBA / required | Yes, SIMATIC iMAP |
| Identification & maintenance function | |
| • I&M0 - device-specific information | Yes |
| • I&M1 – higher-level designation/location designation | Yes |
| • I&M2 - installation date | No |
| • I&M3 - comment | No |
| • I&M4 - signature | No |
| • I&M4 - OEM data | No |

| Product functions / Redundancy | |
|---|---|
| Software / for redundancy function / required | Yes, HARDNET-IE S7-REDCONNECT for communication with SIMATIC S7 H systems |

| Product functions / Time | |
|---|---|
| Product function / SICLOCK support | Yes |
| Protocol / is supported / NTP | No |

| Standards, specifications, approvals | |
|---|---|
| Standard | |
| • for EMC | 2004/108/EC |
| • for safety / from CSA and UL | CAN/CSA C22.2 & UL 60950-1, UL 1950 |
| • for emitted interference | EN 61000-6-3, EN 61000-6-4 |
| • for interference immunity | EN 61000-6-1, EN 61000-6-2 |
| Certificate of suitability | |
| • CE marking | Yes |
| • C-Tick | Yes |

| Accessories |
|---|

| Further Information / Internet Links | |
|---|---|
| Internet-Link | |
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | http://www.siemens.com/industrial-controls/mall |


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|---|---|
| • 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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|---|---|
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