

Product type designation

**CP 5623**

Communications processor CP 5623 PCI Express X1 (3, 3V) for connection to PROFIBUS; incl. DP-Base software, NCM PC: DP-RAM interface for DP master incl. PG and FDL protocol, Single license for 1 installation, Runtime software, Class A; software and electr. manual on CD-ROM, 2 languages (de, en) ; Operating system support see SIMATIC NET software



| Transmission rate   |                             |
|---|-----------------------------|
| Transfer rate   |                             |
| <ul style="list-style-type: none"> <li>at the 1st interface / acc. to PROFIBUS</li> </ul> | 9.6 kbit/s ... 12 Mbit/s    |
| Interfaces  |                             |
| Number of electrical connections  |                             |
| <ul style="list-style-type: none"> <li>at the 1st interface / acc. to PROFIBUS</li> </ul> | 1                           |
| Type of electrical connection   |                             |
| <ul style="list-style-type: none"> <li>at the 1st interface / acc. to PROFIBUS</li> </ul> | 9-pin Sub-D socket (RS 485) |
| Supply voltage, current consumption, power loss   |                             |
| Type of voltage / of the supply voltage   | DC                          |
| Supply voltage  |                             |
| <ul style="list-style-type: none"> <li>1 / from backplane bus</li> </ul>                  | 3.3 V                       |
| <ul style="list-style-type: none"> <li>2 / from backplane bus</li> </ul>                  | 12 V                        |
| Relative symmetrical tolerance / at DC  |                             |
| <ul style="list-style-type: none"> <li>at 3.3 V</li> </ul>                                | 9 %                         |
| <ul style="list-style-type: none"> <li>at 12 V</li> </ul>                                 | 8 %                         |
| Consumed current  |                             |

|  |        |
|--|--------|
| • 1 / from backplane bus / at DC / maximum | 0.72 A |
| • 2 / from backplane bus / at DC / maximum | 0.25 A |
| Power loss [W]                             | 5.4 W  |

### Permitted ambient conditions

|  |                |
|--|----------------|
| Ambient temperature  |                |
| • during operation   | 5 ... 60 °C    |
| • during storage   | -20 ... +60 °C |
| • during transport   | -20 ... +60 °C |
| Relative humidity / at 25 °C / without condensation / during operation / maximum | 85 %           |
| Protection class IP  | IP00           |

### Design, dimensions and weight

|   |  |
|---|--|
| Module format   | PCI Express x1 (half length)   |
| Width   | 21.6 mm  |
| Height  | 126.3 mm   |
| Depth   | 180.5 mm   |
| Net weight  | 102 g  |
| Number of plug-in cards of same design / plug-in / per PC station | 4  |
| Number of units / Note  | FMS-5613 supports up to two CP 5603 / CP 5613 A2 / CP 5614 A2 / CP 5623 / CP 5624 processors |

### Performance data

#### Performance data / open communication

|  |  |
|--|--|
| Software / for open communication / by means of SEND/RECEIVE / required                      | FDL driver included in scope of delivery of the CP |
| Number of possible connections / for open communication / by means of SEND/RECEIVE / maximum | 80   |

#### Performance data / PROFIBUS DP

|   |            |
|---|------------|
| Software / for DP master function / required                | No         |
| Service / as DP master                                      |            |
| • DPV0  | Yes        |
| • DPV1  | Yes        |
| • DPV2  | Yes        |
| Number of DP slaves / on DP master / usable                 | 124        |
| Amount of data  |            |
| • of the address area of the inputs / as DP master / total  | 30256 byte |
| • of the address area of the outputs / as DP master / total | 30256 byte |
| • of the address area of the inputs / per DP slave          | 244 byte   |

|   |          |
|---|----------|
| <ul style="list-style-type: none"> <li>• of the address area of the outputs / per DP slave</li> </ul>         | 244 byte |
| <ul style="list-style-type: none"> <li>• of the address area of the diagnostic data / per DP slave</li> </ul> | 244 byte |
| Software / for DP slave function / required   | No       |
| Service / as DP slave   |          |
| <ul style="list-style-type: none"> <li>• DPV0</li> </ul>  | Yes      |
| <ul style="list-style-type: none"> <li>• DPV1</li> </ul>  | Yes      |
| Amount of data  |          |
| <ul style="list-style-type: none"> <li>• of the address area of the inputs / as DP slave / total</li> </ul>   | 244 byte |
| <ul style="list-style-type: none"> <li>• of the address area of the outputs / as DP slave / total</li> </ul>  | 244 byte |

#### Performance data / FMS functions

|   |               |
|---|---------------|
| Software / for FMS communication / required                   | Yes, FMS-5613 |
| Number of possible connections / for FMS connection / maximum | 40            |

#### Performance data / S7 communication

|  |                              |
|--|------------------------------|
| Software / for S7 communication / required                         | Yes, HARDNET-PB S7 (S7-5613) |
| Number of possible connections / for S7/PG communication / maximum | 50                           |

#### Performance data / multi-protocol mode

|   |     |
|---|-----|
| Number of active connections / with multi-protocol mode | 50  |
| Number of configurable connections / per PC station     | 207 |

#### Product functions / management, configuration

|                                   |                             |
|-----------------------------------|-----------------------------|
| Configuration software / required | Included in scope of supply |
|-----------------------------------|-----------------------------|

#### Product functions / Diagnosis

|  |     |
|--|-----|
| Product function   |     |
| <ul style="list-style-type: none"> <li>• Port diagnostics</li> </ul> | Yes |

#### Standards, specifications, approvals

|  |                            |
|--|----------------------------|
| Standard   |                            |
| <ul style="list-style-type: none"> <li>• for EMC</li> </ul>                      | 2004/108/EC                |
| <ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul> | CAN/CSA C22.2 & UL 60950-1 |
| <ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>     | EN 61000-6-3, EN 61000-6-4 |
| <ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>    | EN 61000-6-1, EN 61000-6-2 |
| Certificate of suitability   |                            |
| <ul style="list-style-type: none"> <li>• CE marking</li> </ul>                   | Yes                        |
| <ul style="list-style-type: none"> <li>• C-Tick</li> </ul>                       | Yes                        |

#### Further Information / Internet Links

|               |  |
|---------------|--|
| Internet-Link |  |
|---------------|--|

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<http://www.siemens.com/industrial-controls/mall>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

## Security information

### Security information

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