

### product type designation



### Simatic CC716

SIMATIC CloudConnect 7, CC716 IoT Gateway for connection of automation devices to cloud services and OPC 2x Ethernet RJ45, 1xMPI/PB Field protocols: S7, S7-Plus, OPC UA, Modbus MES/Cloud protocols: MQTT, HTTP, OPC UA

Technical Product Detail Page

<https://l.siemens.com/1P6GK1411-5AC00>

### transfer rate

#### transfer rate

- |  |                          |
|--|--------------------------|
| • at the 1st interface                         | 10 ... 1000 Mbit/s       |
| • at the 2nd interface                         | 10 ... 1000 Mbit/s       |
| • at the 1st interface / according to PROFIBUS | 9.6 kbit/s ... 12 Mbit/s |

### interfaces

#### number of electrical connections

- |   |   |
|---|---|
| • at the 1st interface / according to Industrial Ethernet | 1 |
| • at the 2nd interface / according to Industrial Ethernet | 1 |
| • at the 1st interface / according to PROFIBUS            | 1 |
| • for power supply  | 2 |

#### 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

- |  |                            |
|--|----------------------------|
| • at the 1st interface / according to PROFIBUS | 9-pin Sub-D socket (RS485) |
| • for power supply                             | 5-pin terminal strip       |

#### design of the removable storage

- |       |     |
|-------|-----|
| • CLP | Yes |
|-------|-----|

### signal inputs/outputs

#### number of electrical connections / for digital input signals

1

#### number of electrical connections / for digital output signals

1

### supply voltage, current consumption, power loss

#### type of voltage / of the supply voltage

DC

#### supply voltage

24 V

#### supply voltage / external

10.8 ... 28.8 V

#### supply voltage / external / at DC / rated value

24 V

#### consumed current

- |   |        |
|---|--------|
| • from external supply voltage / at 24 V DC |        |
| — in communication mode / typical           | 180 mA |

#### power loss [W]

4.3 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 ... +40 °C |
| • during transport                                     | -40 ... +70 °C |

relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %
protection class IP	IP20
<b>design, dimensions and weights</b>	
module format	Compact
width	35 mm
height	147 mm
depth	127 mm
net weight	0.4 kg
fastening method	
<ul style="list-style-type: none"> <li>35 mm DIN-rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>S7-300 rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>S7-1500 rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>wall mounting</li> </ul>	Yes
<b>product functions / cloud connectivity</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>Message Queuing Telemetry Transport (MQTT)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Advanced Message Queuing Protocol (AMQP)</li> </ul>	No
<ul style="list-style-type: none"> <li>HTTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>REST-API</li> </ul>	Yes
product function / for cloud connectivity	
<ul style="list-style-type: none"> <li>trigger management</li> </ul>	Yes
<ul style="list-style-type: none"> <li>time stamping</li> </ul>	Yes
product feature / for cloud connectivity / buffered message frame memory	Yes
number of active connections / for cloud connectivity	3
number of lower-level devices / maximum	7
number of data points per device / maximum	3500
<b>performance data / PROFIBUS DP</b>	
service / as DP master	
<ul style="list-style-type: none"> <li>DPV0</li> </ul>	No
<ul style="list-style-type: none"> <li>DPV1</li> </ul>	No
service / as DP device	
<ul style="list-style-type: none"> <li>DPV0</li> </ul>	No
<ul style="list-style-type: none"> <li>DPV1</li> </ul>	No
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>maximum</li> </ul>	7
<b>performance data / as OPC UA server</b>	
protocol / is supported / OPC UA Server	Yes
number of possible connections / to OPC UA clients / maximum	10
number of variables (items) / maximum	4500
<b>performance data / as OPC UA client</b>	
protocol / is supported / OPC UA Client	Yes
number of possible connections / for OPC UA server / maximum	7
<b>product functions / diagnostics</b>	
product function / web-based diagnostics	Yes
<b>product functions / security</b>	
operating mode / Virtual Private Network (VPN)	No
product function	
<ul style="list-style-type: none"> <li>password protection for Web applications</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SysLog</li> </ul>	Yes
<b>product functions / time</b>	
protocol / is supported	
<ul style="list-style-type: none"> <li>NTP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>NTP (secure)</li> </ul>	Yes
time synchronization	
<ul style="list-style-type: none"> <li>from NTP-server</li> </ul>	Yes

• manual setting	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability / CE marking	Yes
certificate of suitability / UKCA marking	Yes
certificate of suitability / cULus approval	Yes
certificate of suitability / KC approval	Yes
certificate of suitability / Regulatory Compliance Mark (RCM)	Yes
certificate of suitability / RoHS conformity	Yes
certificate of suitability / EAC approval	Yes
<b>standards, specifications, approvals / hazardous environments / header</b>	
certificate of suitability / ATEX	Yes
certificate of suitability / IECEx	Yes
certificate of suitability / ULhazloc approval	Yes
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
certificate of suitability / FM registration	Yes
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a></p> <p><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a></p> <p><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></p> <p><a href="https://siemens.com/cax">https://siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
<b>security information</b>	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>

**Approvals / Certificates**

**General Product Approval**



**EMV For use in hazardous locations**



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