

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

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	
• at 25 °C / without condensation / during operation /	95 %

maximum	
protection class IP	IP20
design, dimensions and weights	
module format	Compact
width	35 mm
height	147 mm
depth	127 mm
net weight	0.4 kg
fastening method	
• 35 mm top hat DIN rail mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• wall mounting	Yes
product functions / cloud connectivity	
protocol / is supported	
• Message Queuing Telemetry Transport (MQTT)	Yes
• Advanced Message Queuing Protocol (AMQP)	No
• HTTP	Yes
• REST-API	Yes
product function / for cloud connectivity	
• trigger management	Yes
• time stamping	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
performance data / PROFIBUS DP	
service / as DP master	
• DPV0	No
• DPV1	No
service / as DP slave	
• DPV0	No
• DPV1	No
performance data / S7 communication	
number of possible connections / for S7 communication	
• maximum	7
performance data / as OPC UA server	
protocol / is supported / OPC UA Server	Yes
number of possible connections / to OPC UA clients / maximum	10
number of variables (items) / maximum	4500
performance data / as OPC UA client	
protocol / is supported / OPC UA Client	Yes
number of possible connections / for OPC UA server / maximum	7
product functions / diagnostics	
product function / web-based diagnostics	Yes
product functions / security	
operating mode / Virtual Private Network (VPN)	No
product function	
• password protection for Web applications	Yes
• SysLog	Yes
product functions / time	
protocol / is supported	
• NTP	Yes
• NTP (secure)	Yes
time synchronization	
• from NTP-server	Yes
• manual setting	Yes
standards, specifications, approvals	
reference code	

- according to IEC 81346-2:2019

KED

further information / internet links

internet link

- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to web page: SiePortal
- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://www.siemens.com/tstcloud>
<https://www.siemens.com/simatic-net>
<https://sieportal.siemens.com/>
<https://www.automation.siemens.com/bilddb>
<https://www.siemens.com/cax>
<https://support.industry.siemens.com>

security information

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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



General Product Approval

EMV

For use in hazardous locations



[KC](#)



[FM](#)

[CCC-Ex](#)

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