



Figure similar

CP-8022 master module with GPRS and LTE CAT1, incl. SD-Card 2xRJ45 Ethernet 1xRJ45 RS-232 1x Terminal RS-485 1x Terminal RS-232 or 485  
Operation temperature: -40 to +70°C

General technical data	
consumed active power / rated value / maximum	6 700 mW
surge voltage / rated value	4 kV
surge voltage resistance	2.5 kV
processor clock frequency	400 MHz
storage capacity / of the RAM	32 Mbyte
product component / hardware real time clock	Yes
accuracy [ppm] / of the hardware real time clock	5 ppm
buffer time / of the hardware real time clock / in case of power failure	72 h
Product details	
time resolution	1 ms
number of local IO modules / maximum	8
Measuring functions	
sampling interval	10 ms
Supply voltage	
type of voltage / of the supply voltage	AC/DC
Inputs / Outputs	
number of digital outputs	0
Communication	
protocol / to the substation as client / is supported / IEC 60870-5-104	Yes
protocol / to the higher-level station as server / is supported / IEC 60870-5-104	Yes
protocol / to the substation as master / is supported / IEC 60870-5-103	Yes
protocol / is supported / IEC 60870-5-103 as slave	Yes
protocol / to the substation as master / is supported / IEC 60870-5-101	Yes
protocol / is supported / IEC 60870-5-101 as slave	Yes
protocol / to the substation as client / is supported / IEC 61850	Yes
protocol / to the higher-level station as server / is supported / IEC 61850	Yes
protocol / at the point-to-point connection / is supported / Modbus RTU as master	Yes
protocol / is supported / Modbus RTU slave	Yes
protocol / is supported / Modbus TCP as client	Yes
protocol / is supported / Modbus TCP as server	Yes
protocol / is supported / DNP 3.0 serial as master	Yes
protocol / is supported / DNP 3.0 serial as slave	Yes
protocol / is supported / DNP 3.0 TCP as client	Yes

protocol / is supported / DNP 3.0 TCP as server	Yes
protocol / is supported / PROFIBUS DP as master	Yes
protocol / is supported / PROFIBUS DP slave	No
type of mobile wireless service / is supported / GPRS	Yes
number of protocols / for standard application / maximum	4
number of ports / of the Ethernet interface	2
number of interfaces / serial	3

#### Cybersecurity

type of communication security / Secure 104 according to IEC 62351-3	Yes
type of access control / role-based access control (RBAC)	Yes
type of system monitoring / according to SNMP	Yes
product function / logging via Security Eventlog	Yes
service / as web server / HTTPS	Yes
product function / firmware identifier	Yes

#### Time synchronization

time synchronization / via telecontrol protocol	Yes
time synchronization / via NTP/SNTP	Yes
time synchronization / via IRIG-B	No

#### Mechanical Design

width	30 mm
height	132 mm
depth	124 mm
product feature / with display	No
fastening method / DIN-rail mounting	Yes
fastening method / wall mounting	No
fastening method / rack mounting	No
type of electrical connection	screw terminal
connectable conductor cross-section	0.2 ... 2.5 mm <sup>2</sup>
material / of the enclosure	plastic
product feature / plug-in terminal blocks	Yes
product function / with function display	Yes
product function / status display	Yes

#### Degree of protection / protection class

operating resource protection class	II
degree of pollution	2
protection class IP / on the front	IP 40

#### Environmental conditions

ambient temperature / during operation	-40 ... +70 °C
ambient temperature / during storage	-40 ... +85 °C
relative humidity	5 ... 95 %
mounting height in relation to mean sea level / maximum	3 000 m
air pressure / maximum	106 kPa

#### Approval certification

certificate of suitability / CE marking	Yes
certificate of suitability / UL approval	Yes

#### Further information

##### Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

##### Information- and Downloadcenter (catalogues, leaflets,...)

<http://www.siemens.com/energy-automation>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=6MF2802-2AA10>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/6MF2802-2AA10>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=6MF2802-2AA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=6MF2802-2AA10)

##### Tender specifications

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

##### Power Academy - Your training and consulting partner in the area of power transmission and distribution

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