controller
CPX-E-CEC-C1-EP
Part number: 4252742

FESTO
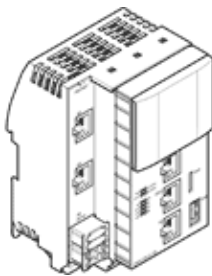
Data sheet

Feature	Value
Dimensions W x L x H	75,9 mm x 124,3 mm x 82,5 mm
Grid dimension	18.9 mm
CPU data	512 MB RAM
	Dual Core 766 MHz
Diagnostics via LED	Force mode
Configuration support	Control unit CDSB
	CODESYS V3
Max. no. of modules	10
Additional functions	CODESYS V3
System parameters	Diagnostic memory
	Fail-safe reaction
	System start
Module parameters	Channel alarms bundling
	Undervoltage diagnostics
	Channel alarms undervoltage
	Process value representation of analogue modules
Storage medium	Micro SD <= 32 GB
	USB-Stick <= 32 GB
Control elements	DIP switch for RUN/STOP
	Rotary switch for address setting
	Optional: control unit CDSB
Processing time	Approx. 200 µs/1 k instruction
Intrinsic current consumption at nominal operating voltage for electronics/sensors	typ. 150 mA
IP address selection	DHCP
	Via CoDeSys
	Optional: via control unit CDSB
Functional modules	And others
	Read CPX-E module diagnostics
	CPX-E diagnostic status
	Copy CPX-E diagnostic trace
Max. power supply	8 A
Flags	120 kB remanent data
	CoDeSys variable concept
Nominal operating voltage DC for electronics/sensors	24 V
Power failure buffering	20 ms
Programming software	CODESYS provided by Festo
Program memory	12 MB user program
Permissible voltage fluctuations for electronics/sensors	± 25 %
Power supply, function	Electronics and sensors
Power supply, type of connection	Terminal strip
Power supply, connection technology	Cage clamp terminal
Power supply, number of pins/wires	4
Power supply, conductor diameter	0.2 … 1.5 mm2
Power supply, note on conductor diameter	0.2 - 2.5 mm² for flexible conductors without wire end sleeves
Authorisation	RCM Mark

Feature	Value
	c UL us - Listed (OL)
CE mark (see declaration of conformity)	to EU directive for EMC
Vibration resistance	Transport application test at severity level 1 in accordance with FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
Corrosion resistance classification CRC	0 - No corrosion stress
Storage temperature	-20 ... 70 °C
Relative air humidity	95 % non-condensing
Protection against direct and indirect contact	Protective extra-low voltage with safe disconnection (PELV)
Protection class	IP20
Ambient temperature	-5 ... 50 °C
Note on ambient temperature	-5 - 60°C for vertical installation
Product weight	288 g
Maximum address volume for outputs	64 Byte
Maximum address volume for inputs	64 Byte
Fieldbus interface, electrical isolation	Yes
Fieldbus interface, transmission rate	100 Mbit/s
Fieldbus interface	Ethernet
USB interface	USB 2.0
Ethernet interface, type of connection	2x socket
Ethernet interface, connection technology	RJ45
Ethernet interface, number of pins/wires	8
Ethernet interface, transmission rate	10 Mbit/s 100 Mbit/s
Ethernet interface, function	diagnosis Switch
Ethernet interface, protocol	EasyIP Modbus TCP TCP/IP
Fieldbus interface, type of connection	2x socket
Fieldbus interface, connection technology	RJ45
Fieldbus interface, number of pins/wires	8
Fieldbus interface, protocol	EtherNet/IP
Fieldbus interface, max. address volume for inputs	512 Byte
Fieldbus interface, max. address volume for outputs	512 Byte
Fieldbus interface 2, connection type	Plug socket
Fieldbus interface 2, connection technology	RJ45
Fieldbus interface 2, number of pins/wires	8
Fieldbus interface 2, function	Bus connection outgoing
Fieldbus interface 2, type	Ethernet
Fieldbus interface 2, protocol	EtherCAT Master
Fieldbus interface 2, galvanic isolation	Yes
Fieldbus interface 2, transmission rate	100 Mbit/s
Mounting type	with top-hat rail
Materials note	Contains PWIS substances Conforms to RoHS
Material housing	PA