

2 Oder data - X20CP148x



Model number	Short description
CPUs	
X20CP1483	X20 CPU, x86 100 MHz Intel compatible, 32 MB DRAM, 128 kB SRAM, exchangeable application memory: CompactFlash, 1 insert slot for X20 interface modules, 2 USB interfaces, 1 RS232 interface, 1 Ethernet interface 10/100 Base-T, 1 POWERLINK V1/V2 interface, incl. power supply module, TB12 terminal block and slot covers, X20AC0SR1 X20 end plate right included, order program memory separately.
X20CP1483-1	X20 CPU, x86 100 MHz Intel compatible, 64 MB DRAM, 128 kB SRAM, exchangeable application memory: CompactFlash, 1 insert slot for X20 interface modules, 2 USB interfaces, 1 RS232 interface, 1 Ethernet interface 10/100 Base-T, 1 POWERLINK V1/V2 interface, incl. power supply module, TB12 terminal block and slot covers, X20AC0SR1 X20 end plate right included, order program memory separately.
X20CP1484	X20 CPU, Celeron 266 compatible, 32 MB DRAM, 1 MB SRAM, exchangeable application memory: CompactFlash, 1 insert slot for X20 interface modules, 2 USB interfaces, 1 RS232 interface, 1 Ethernet interface 10/100 Base-T, 1 POWERLINK V1/V2 interface, incl. power supply module, TB12 terminal block and slot covers, X20AC0SR1 X20 end plate right included, order program memory separately.
X20CP1484-1	X20 CPU, Celeron 266 compatible, 64 MB DRAM, 1 MB SRAM, exchangeable application memory: CompactFlash, 1 insert slot for X20 interface modules, 2 USB interfaces, 1 RS232 interface, 1 Ethernet interface 10/100 Base-T, 1 POWERLINK V1/V2 interface, incl. power supply module, TB12 terminal block and slot covers, X20AC0SR1 X20 end plate right included, order program memory separately.
X20CP1485	X20 CPU, Celeron 400, 32 MB DRAM, 1 MB SRAM, exchangeable application memory: CompactFlash, 1 insert slot for X20 interface modules, 2 USB interfaces, 1 RS232 interface, 1 Ethernet interface 10/100 Base-T, 1 POWERLINK V1/V2 interface, incl. power supply module, TB12 terminal block and slot covers, X20AC0SR1 X20 end plate right included, order program memory separately.
X20CP1485-1	X20 CPU, Celeron 400, 64 MB DRAM, 1 MB SRAM, exchangeable application memory: CompactFlash, 1 insert slot for X20 interface modules, 2 USB interfaces, 1 RS232 interface, 1 Ethernet interface 10/100 Base-T, 1 POWERLINK V1/V2 interface, incl. power supply module, TB12 terminal block and slot covers, X20AC0SR1 X20 end plate right included, order program memory separately.
X20CP1486	X20 CPU, Celeron 650, 64 MB DRAM, 1 MB SRAM, exchangeable application memory: CompactFlash, 1 insert slot for X20 interface modules, 2 USB interfaces, 1 RS232 interface, 1 Ethernet interface 10/100 Base-T, 1 POWERLINK V1/V2 interface, incl. power supply module, TB12 terminal block and slot covers, X20AC0SR1 X20 end plate right included, order program memory separately.
Required accessories	
CompactFlash	
0CFCRD.0128E.01	Compact Flash 128MB WD extended Temp.
0CFCRD.0512E.01	Compact Flash 512MB WD extended Temp.
5CFCRD.0064-03	CompactFlash 64 MB Western Digital (SLC)
5CFCRD.0128-03	CompactFlash 128 MB Western Digital (SLC)
5CFCRD.016G-06	CompactFlash 16 GB B&R (SLC)
5CFCRD.0256-03	CompactFlash 256 MB Western Digital (SLC)
5CFCRD.0512-03	CompactFlash 512 MB Western Digital (SLC)
5CFCRD.1024-03	CompactFlash 1 GB Western Digital (SLC)
5CFCRD.1024-06	CompactFlash 1 GB B&R (SLC)
5CFCRD.2048-03	CompactFlash 2 GB Western Digital (SLC)
5CFCRD.2048-06	CompactFlash 2 GB B&R (SLC)
5CFCRD.4096-03	CompactFlash 4 GB Western Digital (SLC)
5CFCRD.4096-06	CompactFlash 4 GB B&R (SLC)
5CFCRD.8192-03	CompactFlash 8 GB Western Digital (SLC)
5CFCRD.8192-06	CompactFlash 8 GB B&R (SLC)
Optional accessories	
Batteries	
0AC201.91	Lithium batteries 4 pieces, 3 V / 950 mAh button cell Hereby we declare that the Lithium cells contained in this shipment qualify as „partly regulated“. Handle with care. If the package is damaged, inspect cells, repack intact cells and protect cells against short circuits. For emergency information, call RENATA SA at + 41 61 319 28 27
4A0006.00-000	Lithium battery, 3 V / 950 mAh, button cell
X20 CPU exchangeable fan	
X20AC0EF1	X20 CPU exchangeable fan

Table 1: X20CP1483, X20CP1483-1, X20CP1484, X20CP1484-1, X20CP1485, X20CP1485-1, X20CP1486 - Order data

Product ID	X20CP1483	X20CP1483-1	X20CP1484	X20CP1484-1	X20CP1485	X20CP1485-1	X20CP1486
General supply							
Status indicators	Overload, operating status, module status, RS232 data transfer						
Diagnostics	Yes, with status LED Yes, using status LED and software status Yes, using status LED and software status						
RS232 data transfer							
Module run/error							
Overload							
Electrical isolation	No Yes						
I/O feed - I/O supply							
CPU/X2X Link feed - CPU/X2X Link supply							
Controller							
CompactFlash slot	1						
Real-time clock	Nonvolatile memory, resolution 1 second						
FPU	Yes						
Processor	x86 100 comp. Celeron 266 comp. Celeron 400 256 kB Celeron 650 16 kB 2x 16 Kb						
Type							
L2 cache							
L1 cache for data and program code							
Integrated I/O processor	Processes I/O data points in the background						
Modular interface slots	1						
Remanent variables	Max. 32 kB ³⁾	Max. 64 kB ³⁾		Max. 256 kB ³⁾			
Shortest task class cycle time	1 ms	800 µs		400 µs			200 µs
Typical instruction cycle time	0.09 µs	0.007 µs		0.0055 µs			0.0034 µs
Data Buffering	Yes At least 3 years						
Battery monitoring							
Lithium battery							
Standard memory	32 MB SDRAM 64 MB SDRAM 32 MB SDRAM 64 MB SDRAM 32 MB SDRAM 64 MB SDRAM 128 kB SRAM ⁴⁾ 1 MB SRAM ⁴⁾						
RAM							
User RAM							
Interfaces							
Interface IF1	RS232 Contact via 12-pin terminal block TB12 Max. 115.2 kbit/s						
Type							
Design							
Transfer rate							
Interface IF2	Ethernet Shielded RJ45 port Max. 100 m between two stations (segment length) 10/100 Mbit/s						
Type							
Design							
Cable length							
Transfer rate							
Interface IF3	POWERLINK V1/V2 100 Base-T (ANSI/IEEE 802.3) Shielded RJ45 port Max. 100 m between two stations (segment length) 100 Mbit/s						
Fieldbus							
Type							
Design							
Cable length							
Transfer rate							
Interface IF4	USB 1.1 1 Type A						
Type							
Quantity							
Design							
Interface IF5	USB 1.1 1 Type A						
Type							
Quantity							
Design							
IF6 interface	X2X Link master 1						
Type							
Quantity							
Operating conditions							
Mounting orientation	Yes Yes						
Horizontal							
Vertical							
Installation at altitudes above sea level	No derating Reduction of ambient temperature by 0,5°C per 100 m						
0 to 2000 m							
> 2000 m							
EN 60529 protection	IP20						
Environmental conditions							
Temperature	-25 to 60°C 0 to 55°C 0 to 55°C, fan-less: 0 to 45°C -25 to 50°C 0 to 50°C -40 to 85°C -25 to 70°C -40 to 85°C -25 to 70°C						
Operation							
Horizontal installation							
Vertical installation							
Storage							
Transport							

Table 3: X20CP1483, X20CP1483-1, X20CP1484, X20CP1484-1, X20CP1485, X20CP1485-1, X20CP1486 - Technical data

7 Status LEDs for integrated power supply

Image	LED	Color	Status	Description
	r	Green	Off	Module supply not connected
			Single flash	Reset mode
			Blinking	PREOPERATIONAL mode
			On	RUN mode
	e	Red	Off	Module supply not connected or everything is OK
			Double flash	LED indicates one of the following states: - X2X Link power supply is overloaded - I/O supply too low - Input voltage for X2X Link supply too low
	e + r	Steady red / single green flash		Invalid firmware
	S	Yellow	Off	No RS232 activity
			On	The LED is on, when data is being sent or received via the RS232 interface
	l	Red	Off	X2X Link supply in the acceptable range
			On	X2X Link power supply is overloaded

Table 13: X20 CPUs - Status indicators for integrated power supply

8 Control and connection elements

X20CP148x

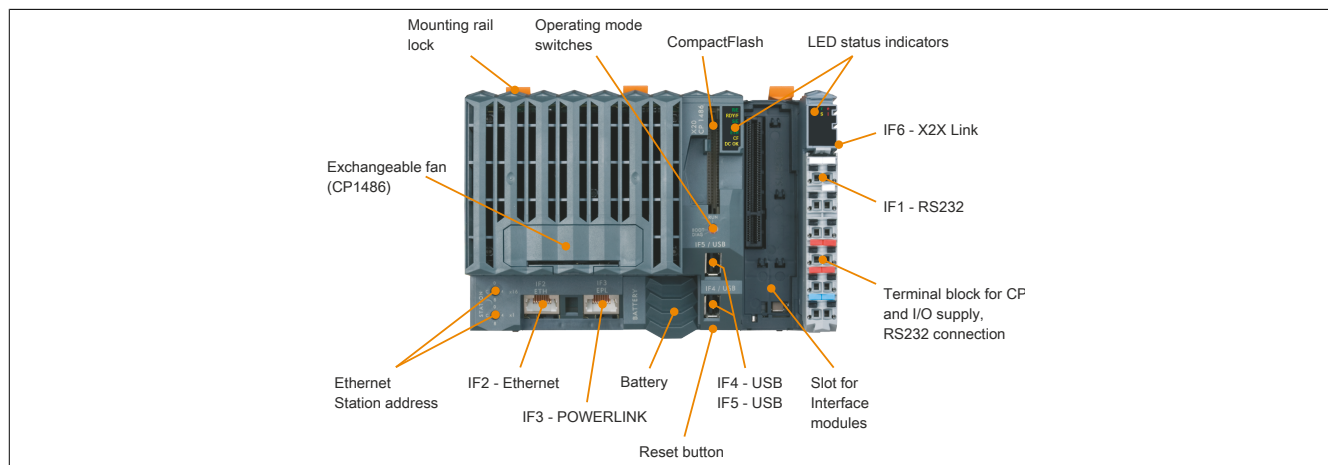


Figure 1: X20 CPUs - Operating elements for X20CP1483, X20CP1483-1, X20CP1484, X20CP1484-1, X20CP1485, X20CP1485-1 and X20CP1486

X20CP348x

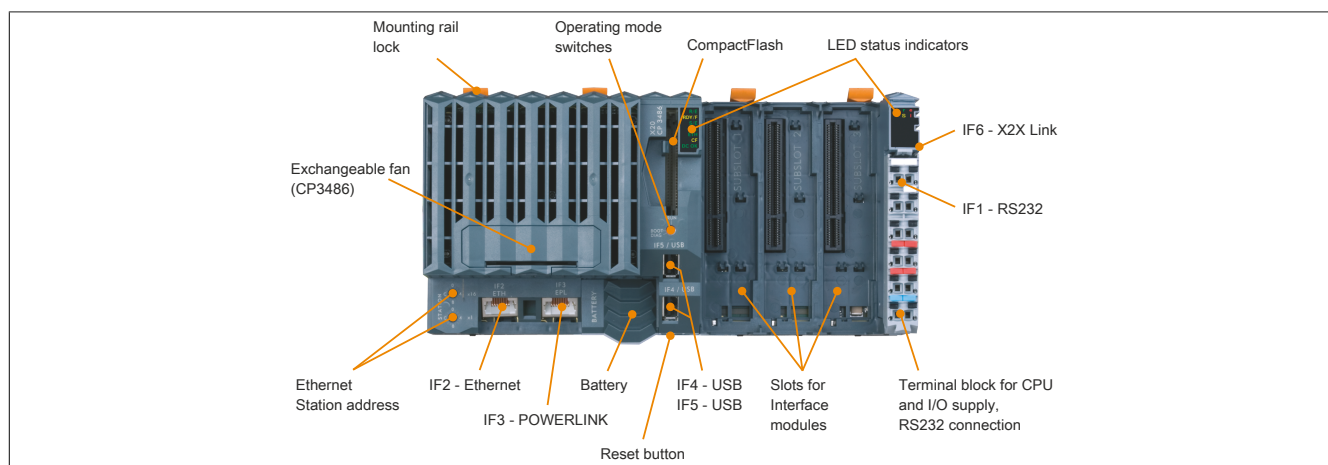


Figure 2: X20 CPUs - Operating elements for X20CP3484, X20CP3484-1, X20CP3485, X20CP3485-1 and X20CP3486