X20cCPx58x

1 General information

With regard to hardware and software, this module is identical to the uncoated module of the same name.

The only differences are the:

- · Model number
- Module ID
- · Environmental conditions
- Additional coating (see data sheet "Coated modules")

For a complete description of the hardware, see data sheet "X20CP158x and X20CP358x".

2 Order data

0AC201.91

4A0006.00-000

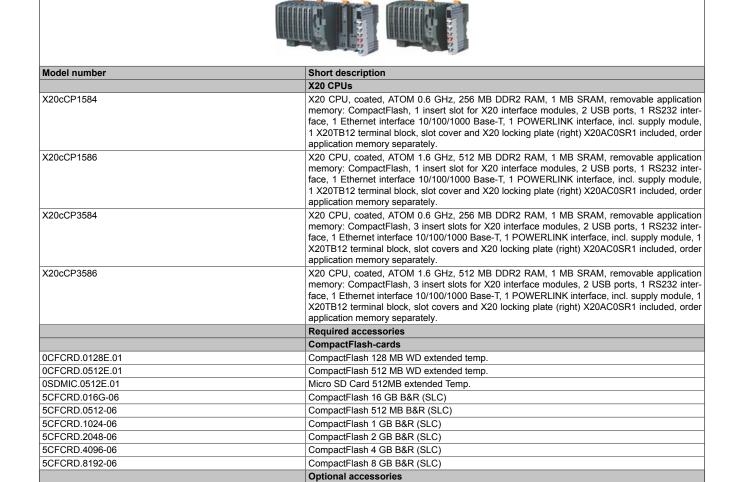


Table 1: X20cCP1584, X20cCP1586, X20cCP3584, X20cCP3586 - Order data

call RENATA SA at +41 61 319 28 27.

Lithium battery, 3 V / 950 mAh, button cell

Lithium batteries 4 pcs., 3 V / 950 mAh button cell We hereby state that the lithium cells contained in this shipment qualify as "partly regulated". Handle with care. If the package is damaged, inspect the cells, repack intact cells and protect the cells against short circuit. For emergency information,

Batteries

3 Technical data

Product ID	X20cCP1584	X20cCP1586	X20cCP3584	X20cCP3586		
Short description						
Interfaces	1x RS232, 1x Ethernet, 1x POW- 1x RS232, 1x Ethernet, 1x POWER- ERLINK, 2x USB, 1x X2X Link LINK (V1/V2), 2x USB, 1x X2X Link					
System module	<u> </u>	CI	PU			
General information				_		
Cooling			lless			
B&R ID code	0xE21B	0xE21C	0xE21D	0xE21E		
Status indicators	CPU function	on, overtemperature, Etherne	et, POWERLINK, CompactFla	ash, battery		
Diagnostics						
Battery			LED and software			
CPU function			status LED			
CompactFlash			status LED			
Ethernet			status LED			
POWERLINK		_	status LED			
Overtemperature ODL reduced as a consistency of the constant	N-		status LED	W		
CPU redundancy possible	No.			Yes		
ACOPOS capability			es			
Visual Components support	0.014		es	0.714		
Power consumption without interface module and USB	8.6 W	9.7 W	8.6 W	9.7 W		
Internal power consumption of the X2X Link and I/O supply 1)						
Bus	1.42 W					
Internal I/O	_		8 W			
Additional power dissipation caused by the actuators (resistive) [W]	_		-	_		
Electrical isolation						
IF1 - IF2	Yes					
IF1 - IF3	Yes					
IF1 - IF4 IF1 - IF5	No No					
IF1 - IF5 IF1 - IF6			es			
IF2 - IF4						
IF2 - IF5	Yes Yes					
IF3 - IF4			es			
IF3 - IF5			es			
IF4 - IF5			lo			
IF4 - IF6			es			
IF5 - IF6			es			
PLC - IF1		N	lo			
PLC - IF2		Y	es			
PLC - IF3	Yes					
PLC - IF4		N	lo			
PLC - IF5		N	lo			
PLC - IF6		Y	es			
Certification						
CE			es			
cULus			es			
ATEX Zone 2			es			
GL COOT B	Yes			-		
GOST-R		Y	es			
CPU and X2X Link supply		011/00 :	F0/ / + 000/			
Input voltage			5% / +20%	4.50.4		
Input current	Max. 1.			. 1.50 A		
Fuse			not be replaced			
Reverse polarity protection		Y	es			
X2X Link supply output	- 0.14.2	= 14:00		2.144.2)		
Nominal output power	7.0 W ²⁾	7 W ²⁾	l .	O W ²⁾		
Parallel operation			S 3)			
Redundant operation		Y	es			
Input I/O supply			5 0/ 1 . 0 00/			
Input voltage	24 VDC -15% / +20%					
Fuse		Required line fuse: N	Max. 10 A, slow-blow			
Output I/O supply			100			
Rated output voltage			VDC			
Permitted contact load		10) A			
Supply - General information						
Status indicators	Ove	erload, operating status, mod	dule status, RS232 data trans	sfer		
Diagnostics						
RS232 data transfer	Yes, using status LED					
Module run/error	Yes, using status LED and software					
Overload		Yes, using status	LED and software			

Table 2: X20cCP1584, X20cCP1586, X20cCP3584, X20cCP3586 - Technical data

Product ID	X20cCP1584	X20cCP1586	X20cCP3584	X20cCP3586	
Electrical isolation					
I/O feed - I/O supply			No		
CPU/X2X Link feed - CPU/X2X Link		Y	/es		
supply					
Controller					
CompactFlash slot			1		
Real-time clock		·	y, resolution 1 second		
FPU		Y	/es		
Processor	ATOMATM FOROT	ALCO THE FORCE	ATOMAN FORM	ALCO THE FORCE	
Type	ATOM™ E620T	Atom™ E680T	ATOM™ E620T	Atom™ E680T	
Clock frequency L1 cache	0.6GHz	1.6GHz	0.6 GHz	1.6 GHz	
		24	4 kB		
Data code			+ кБ 2 kB		
Program code L2 cache			2 kB		
Integrated I/O processor			oints in the background		
Modular interface slots		1		 3	
Remanent variables	Max. 256 kB ⁴⁾	Max. 1 MB ⁴⁾	Max. 256 kB ⁴⁾	Max. 1 MB ⁴⁾	
Shortest task class cycle time	400 µs	100 µs	400 µs	100 µs	
Typical instruction cycle time	0.0075 μs	0.0027 µs	0.0075 μs	0.0027 µs	
Data buffering Battery monitoring		ν.	⁄es		
Lithium battery			res Cambient temperature		
Standard memory		wiiii. 2 years at 23 C	ambient temperature		
RAM	256 MB DDR2 SDRAM	512 MB DDR2 SDRAM	256 MB DDR2 SDRAM	512 MB DDR2 SDRAM	
User RAM	200 MID DDIZ ODKAM		SRAM 5)	A 14 INID DDIVE SDRAIN	
Interfaces		I IVID	OLO MAIL 17		
IF1 interface					
Signal		DS	5232		
Design			2-pin X20TB12 terminal block		
Max. distance		•	00 m		
Transfer rate			15.2 kbit/s		
IF2 interface		Wax. 11	10.2 Kbib3	_	
Signal		Eth	ernet		
Design	1 shielded	I RJ45 port	1 11	d RJ45 port	
Cable length	Max. 100 m between two	Max. 100 m between 2		stations (segment length)	
5 a 2.0 i 5 i i g a .	stations (segment length)	stations (segment length)	max. res in settles in the	ctations (sogment tongar)	
Transfer rate	, , ,		000 Mbit/s		
Transmission					
Physical interfaces	10 BASE-T/100 BASE-TX/1000 BASE-T				
Half-duplex	Yes				
Full-duplex		Υ	⁄es		
Autonegotiation		Υ	⁄es		
Auto-MDI / MDIX		Υ	⁄es		
IF3 interface		-			
Fieldbus		POWERLINK (V1/V2) ma	anaging or controlled node		
Туре		e 4 ⁶⁾		e 4 ⁷⁾	
Design		RJ45 port		d RJ45 port	
Cable length	Max. 100 m between two	Max. 100 m between 2	Max. 100 m between two	stations (segment length)	
	stations (segment length)	stations (segment length)	1		
Transfer rate		100	Mbit/s		
Transmission		400 B	ACE TV		
Physical interfaces			ASE-TX		
Half-duplex			∕es No		
Full-duplex Autonegotiation			No Yes		
Auto-MDI / MDIX			res ⁄es		
IF4 interface		·	100		
Type		1100	1.1/2.0		
Design			pe A		
IF5 interface			po.1		
Type		IIQR	1.1/2.0		
Design			pe A		
IF6 interface		ТУ	po.1	-	
Fieldbus		X2X I ir	nk master		
Operating conditions		, <u>, , , , , , , , , , , , , , , , , , </u>			
Mounting orientation					
Horizontal		٧	/es		
Vertical			res		
Installation at elevations above sea					
level					
level 0 to 2000 m		No lim	nitations		
!			nitations perature by 0.5°C per 100 m		

Table 2: X20cCP1584, X20cCP1586, X20cCP3584, X20cCP3586 - Technical data

Product ID	X20cCP1584	X20cCP1586	X20cCP3584	X20cCP3586		
Environmental conditions						
Temperature						
Operation						
Horizontal installation	-25 to 60°C					
Vertical installation		-25 to 50°C				
Derating	See section "Derating"					
Storage	-40 to 85°C					
Transport	-40 to 85°C					
Relative humidity						
Operation	Up to 100%, condensing					
Storage	5 to 95%, non-condensing					
Transport	5 to 95%, non-condensing					
Mechanical characteristics						
Note	Order application memory (CompactFlash) separately Backup battery included in delivery X20 locking plate (right) included in delivery X20 terminal block (12-pin) included in delivery Interface module slot covers included in delivery					
Dimensions						
Width	150 m	m	20	00 mm		
Height	99 mm					
Depth	85 mm					

Table 2: X20cCP1584, X20cCP1586, X20cCP3584, X20cCP3586 - Technical data

- 1) The specified values are maximum values. The exact calculation is included as a data sheet in the module documentation and can be downloaded from the B&R website.
- 2) When operated at temperatures above 55°C, a derating of the rated output current to 5 W for the X2X Link supply must be taken into consideration.
- 3) In parallel operation, only 75% of the rated power can be assumed. It is important to make sure that all power supplies operating in parallel are switched on and off at the same time.
- 4) Can be configured in Automation Studio.
- 5) 1 MB SRAM minus the configured remanent variables.
- 6) See the POWERLINK help system under "General information, Hardware IF/LS".
- 7) See the POWERLINK online help documentation under "General information, Hardware IF/LS".