

X20IF1020

1 General information

The interface module can be used to expand the X20 CPU for specific applications. It is equipped with an RS232 interface.

- The RS232 interface can be configured as an online interface

2 Order data


Model number	Short description	Figure
	X20 interface module communication	
X20IF1020	X20 interface module, 1 RS232 interface, max. 115.2 kbit/s, electrically isolated	
	Optional accessories	
	Others	
0G0001.00-090	PC - PLC/PW cable, RS232, online cable	


Table 1: X20IF1020 - Order data

3 Technical data

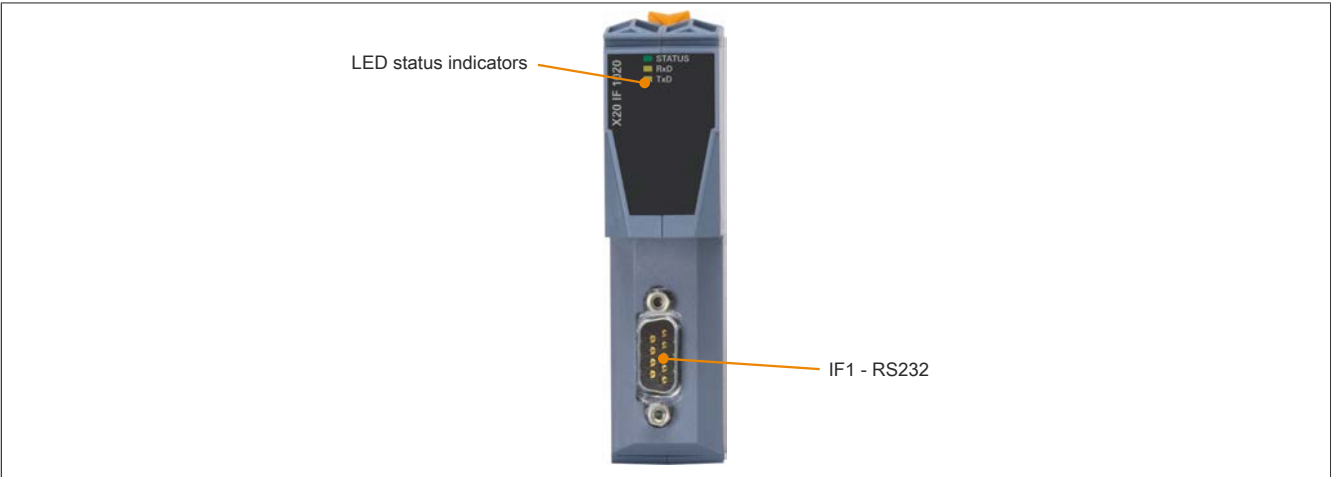
Model number	X20IF1020
Short description	
Communication module	1x RS232
General information	
B&R ID code	0x1F27
Status indicators	Module status, data transfer
Diagnostics	
Module status	Yes, using status LED
Data transfer	Yes, using status LED
Power consumption	0.35 W
Additional power dissipation caused by actuators (resistive) [W]	-
Certifications	
CE	Yes
KC	Yes
EAC	Yes
UL	cULus E115267 Industrial control equipment
HazLoc	cCSAus 244665 Process control equipment for hazardous locations Class I, Division 2, Groups ABCD, T5
ATEX	Zone 2, II 3G Ex nA nC IIA T5 Gc IP20, Ta (see X20 user's manual) FTZU 09 ATEX 0083X
DNV GL	Temperature: B (0 - 55°C) Humidity: B (up to 100%) Vibration: B (4 g) EMC: B (bridge and open deck)
LR	ENV1
KR	Yes
Interfaces	
Interface IF1	
Signal	RS232
Variant	9-pin male DSUB connector
Max. distance	900 m
Transfer rate	Max. 115.2 kbit/s
Network-capable	No
FIFO	16 bytes in transmit and receive direction
Handshake lines	RTS, CTS
Controller	UART type 16C550 compatible
Data formats	
Data bits	5 to 8
Parity	Yes / No / Even / Odd
Stop bits	1 or 2
Electrical properties	
Electrical isolation	PLC isolated from RS232 (IF1)
Operating conditions	
Mounting orientation	
Horizontal	Yes
Vertical	Yes
Installation elevation above sea level	
0 to 2000 m	No limitations
>2000 m	Reduction of ambient temperature by 0.5°C per 100 m
Degree of protection per EN 60529	IP20
Ambient conditions	
Temperature	
Operation	
Horizontal mounting orientation	-25 to 60°C
Vertical mounting orientation	-25 to 50°C
Derating	-
Storage	-40 to 85°C
Transport	-40 to 85°C
Relative humidity	
Operation	5 to 95%, non-condensing
Storage	5 to 95%, non-condensing
Transport	5 to 95%, non-condensing
Mechanical properties	
Slot	In X20 CPU

Table 2: X20IF1020 - Technical data

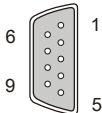
4 LED status indicators

Figure	LED	Color	Status	Description
	STATUS	Green	On	Interface module active
		Red	On	CPU starting up
	RxD	Yellow	On	The module receives data via the RS232 interface
	TxD	Yellow	On	The module sends data via the RS232 interface

5 Operating and connection elements



6 RS232 interface (IF1)

Interface	Pinout		
	Pin	RS232	
 9-pin male DSUB connector	1	NC	
	2	RxD	Receive signal
	3	TxD	Transmit signal
	4	NC	
	5	GND	Ground
	6	NC	
	7	RTS	Request To Send
	8	CTS	Clear To Send
	9	NC	

7 Firmware

The module comes with preinstalled firmware. The firmware is part of Automation Studio. The module is automatically brought up to this level.

To update the firmware contained in Automation Studio, a hardware upgrade must be performed (see "Project management / Workspace / Upgrades" in Automation Help).