

X20IF1063

1 General information

The interface module can be used to expand the X20 CPU for specific applications. It is equipped with a PROFIBUS DP V0 slave interface.

- PROFIBUS DP V0 slave connection

2 Order data

Model number	Short description	Figure
	X20 interface module communication	
X20IF1063	X20 interface module, 1 PROFIBUS DP V0 slave interface, max. 12 Mbit/s, electrically isolated	
	Optional accessories	
	Infrastructure components	
0G1000.00-090	Bus connector, RS485, for PROFIBUS networks	

Table 1: X20IF1063 - Order data

3 Technical data

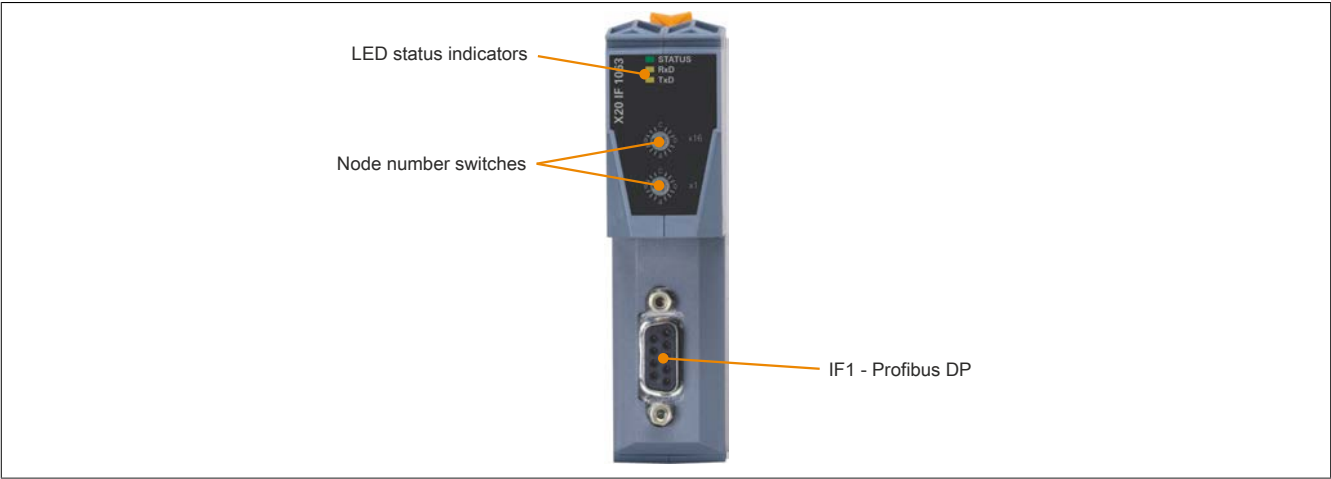
Model number	X20IF1063
Short description	
Communication module	1x PROFIBUS DP V0 slave
General information	
B&R ID code	0x1F23
Status indicators	Module status, data transfer
Diagnostics	
Module status	Yes, using status LED
Data transfer	Yes, using status LED
Power consumption	0.87 W
Additional power 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
Interfaces	
Interface IF1	
Fieldbus	PROFIBUS DP V0 slave
Variant	9-pin female DSUB connector
Max. distance	1200 m
Transfer rate	Max. 12 Mbit/s
Terminating resistor	External T-connector (0G1000.00-090)
Controller	VPC3+C
Electrical properties	
Electrical isolation	PLC isolated from PROFIBUS (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: X20IF1063 - 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 PROFIBUS DP slave interface
	TxD	Yellow	On	The module sends data via the PROFIBUS DP slave interface

5 Operating and connection elements



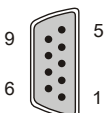
6 Node number switch



The node number for the interface is set with the two hex switches.

7 PROFIBUS DP interface

A shielded line must be used for the interface.

Interface	Pinout	
	Pin	RS485
 9-pin female DSUB connector	1	Reserved
	2	Reserved
	3	RxD/TxD-P
	4	CNTR-P
	5	DGND
	6	VP
	7	Reserved
	8	RxD/TxD-N
	9	CNTR-N
CNTR ... Direction switch for external repeaters		

- 1) Cable color: Red
- 2) Cable color: Green

8 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).