# X20(c)IF1072

#### 1 General information

The interface module can be used to expand the X20 CPU for specific applications. It is equipped with a CAN bus interface.

- · CAN bus connection
- · Integrated terminating resistor

### Information:

This module does not support CAN RTR messages with extended CAN identifiers (29-bit) (memory/performance bottleneck).

#### 2 Coated modules

Coated modules are X20 modules with a protective coating for the electronics component. This coating protects X20c modules from condensation and corrosive gases.

The modules' electronics are fully compatible with the corresponding X20 modules.

For simplification purposes, only images and module IDs of uncoated modules are used in this data sheet.

The coating has been certified according to the following standards:

- Condensation: BMW GS 95011-4, 2x 1 cycle
- · Corrosive gas: EN 60068-2-60, method 4, exposure 21 days







#### 3 Order data

Model number	Short description	Figure
	X20 interface module communication	~
X20IF1072	X20 interface module, 1 CAN bus interface, max. 1 Mbit/s, electrically isolated, order 1x TB2105 terminal block separately	
X20clF1072	X20 interface module, coated, 1 CAN bus interface, max. 1 Mbit/ s, electrically isolated, order 1x TB2105 terminal block separate- ly	TANKS SERVICE
	Required accessories	
	Terminal blocks	
0TB2105.9010	Accessory terminal block, 5-pin, screw clamps 2.5 mm²	
OTB2105.9110	Accessory terminal block, 5-pin, cage clamp terminal block 2.5 mm <sup>2</sup>	

Table 1: X20IF1072, X20cIF1072 - Order data

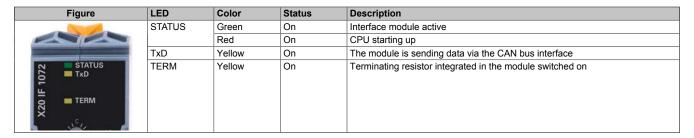
## 4 Technical data

Model number	X20IF1072 X20cIF1072			
Short description				
Communication module	1x CAN bus			
General information				
B&R ID code	0x1F20			
Status indicators	Module status, data transfer, terminating resistor			
Diagnostics				
Module status	Yes, using status LED			
Data transfer	Yes, using status LED			
Terminating resistor	Yes, using status LED			
Power consumption	0.79 W			
Additional power dissipation caused by actuators (resistive) [W]	- -			
Certifications				
CE	Yes			
KC	Yes -			
EAC	Yes			
UL	cULus E115267			
32	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) FTZÚ 09 ATEX 0083X			
DNV GL	Temperature: <b>B</b> (0 - 55°C) Humidity: <b>B</b> (up to 100%) Vibration: <b>B</b> (4 g) EMC: <b>B</b> (bridge and open deck)			
LR	ENV1 -			
Interfaces				
Interface IF1				
Signal	CAN bus 1)			
Variant	5-pin male multipoint connector			
Max. distance	1000 m			
Transfer rate	Max. 1 Mbit/s			
Terminating resistor	Integrated in the module			
Controller	SJA 1000			
Electrical properties				
Electrical isolation	PLC isolated from CAN (IF1)			
Operating conditions				
Mounting orientation				
Horizontal	Yes			
Vertical	Yes			
Installation elevation above sea level	<del>:*</del>			
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	II <b>4</b> 0			
Temperature				
Operation	05 to C0°O			
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 Up to 100%, condensing			
	5 to 95%, non-condensing			
Storage	5 to 95%, non-condensing			
-	5 to 95%, non-condensing			
Storage	<u>-</u>			
Storage Transport	<u>-</u>			

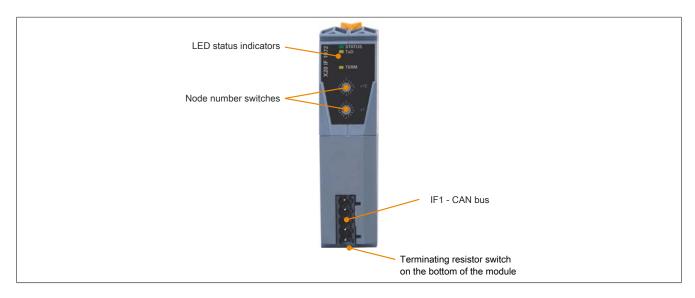
Table 2: X20IF1072, X20cIF1072 - Technical data

<sup>1)</sup> This CAN bus interface can be configured as a CANopen master in Automation Studio 3.0 and higher.

## **5 LED status indicators**



# **6 Operating and connection elements**



## 7 Node number switch



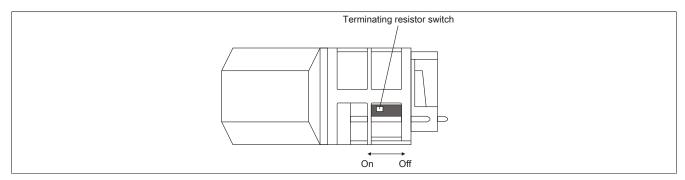
The node number for the interface is set with the two hex switches.

### 8 CAN bus interface

The interface is a 5-pin multipoint connector. Terminal block 0TB2105 must be ordered separately.

Interface	Pinout		
	Terminal	Function	
	1	CAN⊥	CAN ground
	2	CAN_L	CAN low
	3	SHLD	Shield
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4	CAN_H	CAN high
	5	NC	
5-pin male multipoint connector			

## 9 Terminating resistor



A terminating resistor is integrated in the interface module. It can be switched on or off with a switch on the bottom of the housing. A switched-on terminating resistor is indicated by LED "TERM".

#### 10 Firmware

The module comes with preinstalled firmware. The firmware is a component of Automation Studio. The module is updated to this version automatically.

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