

X20IF2792

1 General information

The interface module can be used to expand the X20 CPU for specific applications. It is equipped with both an X2X Link interface and a CAN bus interface.

- X2X Link connection
- 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 Order data


Model number	Short description	Figure
	X20 interface module communication	
X20IF2792	X20 interface module, 1 CAN bus interface, max. 1 Mbit/s, electrically isolated, 1 X2X Link master interface, electrically isolated, order 1x terminal block TB2105 and 1x terminal block TB704 separately!	
	Required accessories	
	Terminal blocks	
0TB2105.9010	Accessory terminal block, 5-pin, screw clamps 2.5 mm ²	
0TB2105.9110	Accessory terminal block, 5-pin, push-in terminal block 2.5 mm ²	
0TB704.9	Accessory terminal block, 4-pin, screw clamp terminal block 2.5 mm ²	
0TB704.91	Accessory terminal block, 4-pin, push-in terminal block 2.5 mm ²	

Table 1: X20IF2792 - Order data


3 Technical data

Model number	X20IF2792
Short description	
Communication module	1x X2X Link master, 1x CAN bus
General information	
B&R ID code	0x1F26
Status indicators	Module status, data transfer, terminating resistor
Diagnostics	
Module status	Yes, using LED status indicator
Data transfer	Yes, using LED status indicator
Terminating resistor	Yes, using LED status indicator
Power consumption	1.25 (Rev. <E0: 1.51 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) FTZÜ 09 ATEX 0083X
Interfaces	
Interface IF1	
Fieldbus	X2X Link master
Variant	4-pin male multipoint connector
Number of stations	Max. 253
Internal bus power supply	No
Network topology	Line
Distance between 2 stations	Max. 100 m
Bus terminating resistor	Internal
Interface IF2	
Signal	CAN bus ¹⁾
Variant	5-pin male multipoint connector
Max. distance	1000 m
Transfer rate	Max. 1 Mbit/s
Terminating resistor	Integrated in module
Controller	SJA 1000
Electrical properties	
Electrical isolation	PLC isolated from X2X Link (IF1) and CAN (IF2) and interfaces isolated from each other
Operating conditions	
Mounting orientation	
Horizontal	Yes
Vertical	Yes
Installation elevation above sea level	
0 to 2000 m	No limitation
>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	
Note	Order 1x terminal block TB704 and 1x terminal block TB2105 separately.
Slot	In X20 CPU

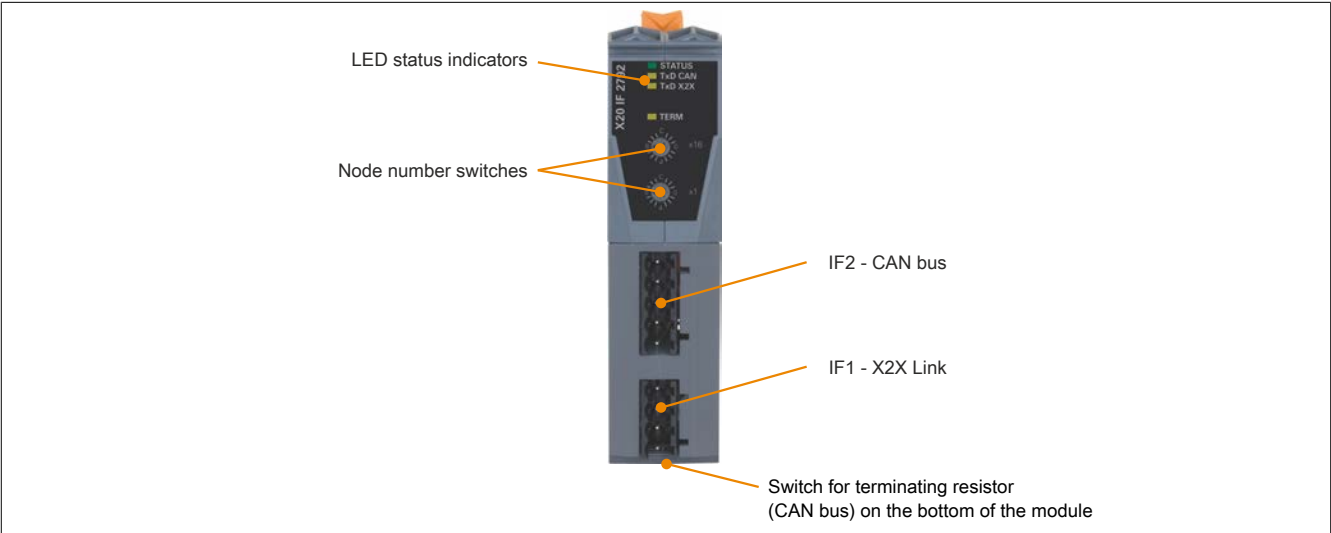
Table 2: X20IF2792 - Technical data

1) This CAN bus interface can be configured as a CANopen master in Automation Studio 3.0 and later.


4 LED status indicators

Figure	LED	Color	Status	Description
	STATUS	Green	On	Interface module active
		Red	On	CPU starting up
	TxD CAN	Yellow	On	The module is sending data via the CAN bus interface
	TxD X2X	Yellow	On	Module sending data via the X2X Link interface
	TERM	Yellow	On	The integrated terminating resistor for the CAN bus interface is turned on

5 Operating and connection elements



6 X2X Link interface (IF1)

Interface		Pinout	
 4-pin male multipoint connector	1	Terminal	Function
		1	X2X
		2	X2X _L
		3	X2X _I
		4	SHLD
			Shield

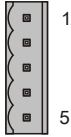
7 CAN bus node number



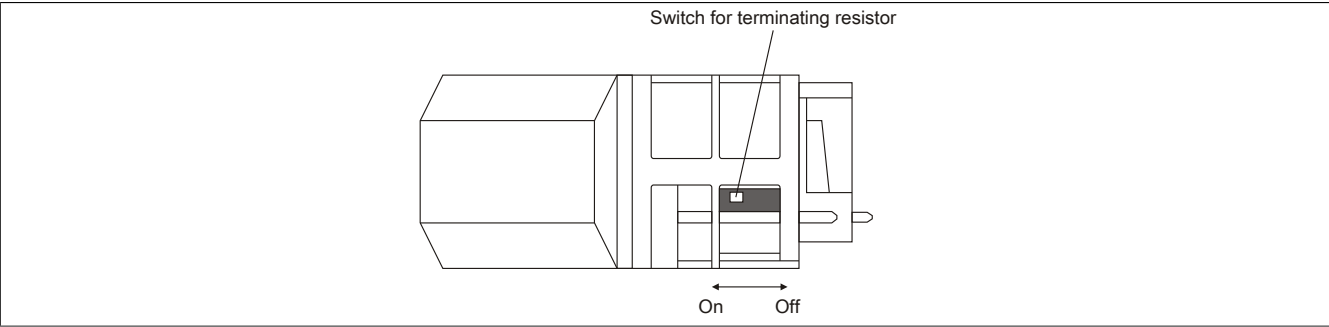
The node number for the CAN bus interface (IF2) is set with the two hex switches.

8 CAN bus interface

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

Interface		Pinout	
	1	Terminal	Function
		1	CAN _L 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



The interface module has an integrated terminating resistor for the CAN bus interface. It can be turned on and off with a switch on the bottom of the housing. An active terminating resistor is indicated by the "TERM" LED.

10 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).