15.10 IF672

15.10.1 General Information

The IF672 interface module can be operated e.g. in an interface module slot on the CP260 or in the IF260 / IF060.

The module is equipped with an RS232 interface and two CAN interfaces.

15.10.2 Order Data

Model Number	Short Description	Image
	Interface Module	
3IF672.9	2005 interface module, 1 RS232 interface, 2 CAN interfaces, CAN: Electrically isolated, network capable, CPU and IF-module insert	
	Accessories	
0G0001.00-090	Cable PC <-> PLC/PW, RS232, online cable	
Additional accessories see sections "Accessories" and "Manuals".		

Table 346: IF672 order data

15.10.3 Technical Data

Product ID	IF672
General Information	
C-UL-US Listed	Yes
Slot	Insert e.g. in CP260, IF260, IF060
Interfaces	1 x RS232 2 x CAN

Power Consumption
   5 V
   24 V
   Total
	Max. 1.8 W
	--- 	
	Max. 1.8 W

Application Interface IF1	
Type	RS232
Controller	UART Type ST16C650
FIFO	32 bytes in send and receive direction
Design	9-pin DSUB plug
Electrical Isolation	No
Input Filter / Protective Circuit	Yes
Maximum Distance	15 m / 19200 Baud
Maximum Baud Rate	115.2 kBaud
Handshake Lines	DTR, DSR, RTS, CTS
Network Capable	No

Data Formats
   Data Bits
   Parity
   Stop Bits
	5 to 8
	Yes / No / Even / Odd
	1 / 2

Application Interfaces IF2 and IF3	
Type	CAN
Controller	Controller 82527
Design	2 x 4-pin multipoint connector

Electrical Isolation
   to PLC
   Between Interfaces
	Yes
	Yes

Maximum Distance	1,000 m

Maximum Baud Rate
   Bus Length ≤60 m
   Bus Length ≤200 m
   Bus Length ≤1,000 m
	500 kBit/s
	250 kBit/s
	50 kBit/s

Network Capable	Yes
Bus Termination Resistor	Optional (externally wired)

Table 347: IF672 technical data

Chapter 3
B&R 2005 Modules

15.10.4 Operational and Connection Elements

Status LEDs show for the IF1 interface whether data is being received (RXD) or sent (TXD).

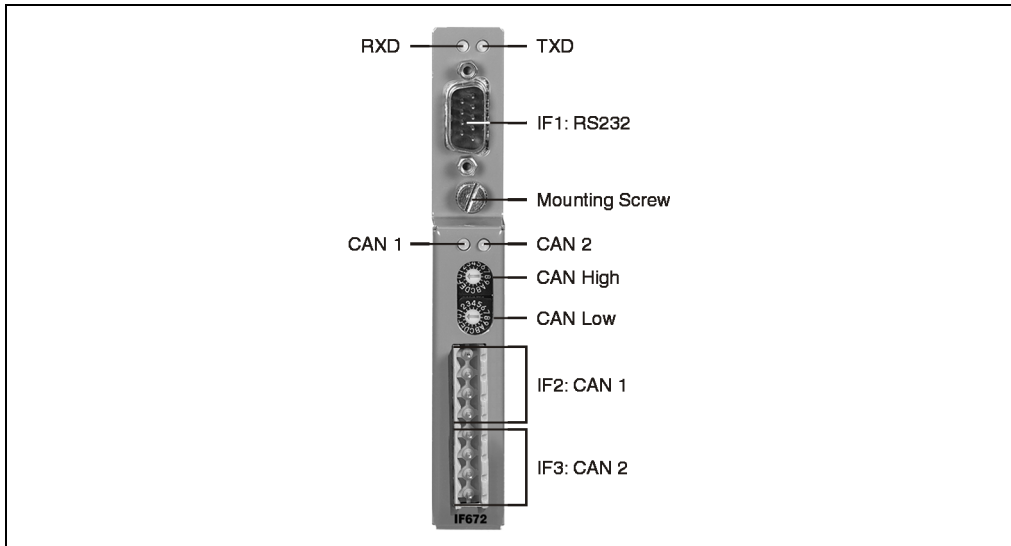Both CAN interfaces have a status LED that indicates when data is being sent.

Figure 189: IF672 operational and connection elements

15.10.5 CAN Node Number Switch

The node numbers for the first two CAN interface (IF2) are set with the two hex switches. The following formula is used to set the second CAN interface (IF3):

Node number CAN 2 (IF3) = Node number CAN 1 (IF2) + 1

The CAN node number can also be set using the software.
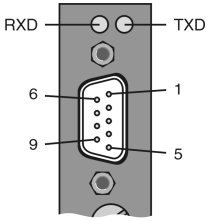
15.10.6 RS232 Interface (IF1)

Interface	Description	Pin Assignments		
Application interface RS232 RXD — TXD 6 — 1 9 — 5 9-pin DSUB plug	The standard RS232 interface is not electrically isolated. LEDs show on the interface whether data is being received (RXD) or sent (TXD). The shield is connected to the DSUB connectors housing. Max. Baud Rate: 115.2 kBaud Max. Cable Length: 15 m	**Pin**	**RS232**	
		1	NC	
		2	RXD	Receive Signal
		3	TXD	Transmit Signal
		4	DTR	Data Terminal Ready
		5	GND	Ground
		6	DSR	Data Set Ready
		7	RTS	Request To Send
		8	CTS	Clear To Send
		9	NC	

Table 348: IF672 RS232 Interface (IF1)

15.10.7 Interfaces CAN 1 and CAN 2 (IF2 and IF3)

Two 4-pin terminal block and two 120 Ω bus termination resistors are included in the delivery. The resistors can be installed between pin 1 and pin 3 or between pin 5 and pin 7.
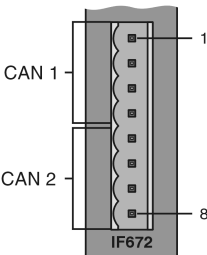
Interface	Description	Pin Assignments	
Application interface CAN 1 + CAN 2 CAN 1 — 1 CAN 2 — 8 **IF672** 8-pin Multipoint connector	The electrically isolated CAN interfaces IF2 and IF3 are 8-pin multipoint connectors. The status LED CAN 1 or CAN 2 are lit when data is sent to the corresponding CAN interface. Max. Baud Rate: 500 kBit/s Bus Length: ≤60 m 250 kBit/s Bus Length: ≤200 m 50 kBit/s Bus Length: ≤1,000 m	**Terminal**	**CAN 1 and CAN 2**
		1	CAN_H1
		2	GND1
		3	CAN_L1
		4	Shield 1
		5	CAN_H2
		6	GND2
		7	CAN_L2
		8	Shield 2

Table 349: IF672 interfaces CAN 1 and CAN 2 (IF2 and IF3)