15.13 IF772

15.13.1 General Information

The IF772 interface module is an aPCI module and can be installed in all corresponding interface module slots e.g. in the CP360.

The module is equipped with a modem capable RS232 interface and two CAN interfaces with their own object buffers in send and receive direction.

15.13.2 Order Data

Model Number	Short Description	Image
	Interface module	
3IF772.9	2005 aPCI interface module, 1 RS232 interface, 2 CAN interfaces, max. 500 kbps, CAN: electrically isolated, network capable, object buffer in send and receive direction. Order 2 x TB704 terminal blocks separately.	
0TB704.9	Accessory, terminal block, 4-pin, screw clamps, 1.5 mm²	
0TB704.91	Accessory, terminal block, 4-pin, cage clamps, 2.5 mm²	
	Accessories	
0G0001.00-090	Cable PC <-> PLC/PW, RS232, online cable	
Additional accessories see sections "Accessories" and "Manuals". ⚠ **The 4-pin terminal block TB704 is not included in the delivery.**		

Table 361: IF772 order data

15.13.3 Technical Data

Product ID	IF772
General Information	
C-UL-US Listed	Yes
Slot	aPCI insert
Interfaces	1 x RS232 2 x CAN

Power Consumption
    5 V
    24 V
    Total
	Max. 2.1 W
	--- 	
	Max. 2.1 W

Application Interface IF1	
Type	RS232
Controller	UART Type 16C550 compatible
FIFO	16 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	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 SJA 1000
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 362: IF772 technical data

15.13.4 Operational and Connection Elements

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

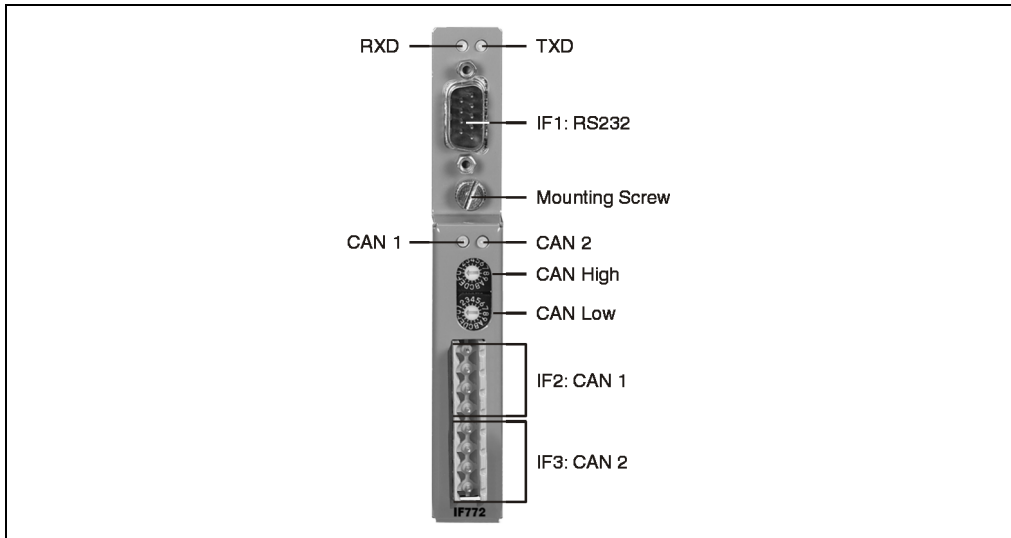Both CAN interfaces have a status LED that indicates when data is being sent.

Figure 194: IF772 operational and connection elements

15.13.5 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 numbers can also be set by the software (in preparation).
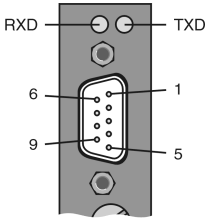
15.13.6 RS232 Interface (IF1)

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	NC	
		5	GND	Ground
		6	NC	
		7	RTS	Request To Send
		8	CTS	Clear To Send
		9	NC	

Table 363: IF772 RS232 Interface (IF1)

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

Two 120 Ω terminating resistors are included with delivery. The resistors can be installed between pin 1 and pin 3 or between pin 5 and pin 7.
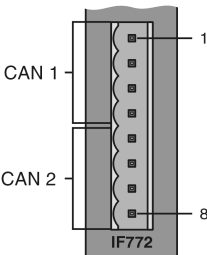
Interface	Description	Pin Assignments	
Application interface CAN 1 + CAN 2 CAN 1 ⌐ ▣ — 1 ▣ ▣ ▣ CAN 2 ⌐ ▣ ▣ ▣ — 8 **IF772** 8-pin Multipoint connector	The electrically isolated CAN interfaces IF2 and IF3 are 8-pin multipoint connectors. The status LED CAN 1 or CAN 2 are lit when data is sent to the corresponding 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 364: IF772 CAN 1 and CAN 2 interfaces (IF2 and IF3)