1.1 IF771

1.1.1 General Information

The IF771 interface module is an aPCI module and can be installed in all corresponding interface module slots (e. g. in the CP360).

The IF771 is equipped with a CAN bus interface (with its own object buffers in send and receive direction).

1.1.2 Order Data

Model Number	Short Description	Image
	Interface Module	
3IF771.9	aPCI interface module, 1 CAN bus interface, max. 500 kBit/s, CAN bus: electrically isolated, network capable, object buffer in send and receive direction. Order 1 x TB704 terminal block separately.	
	Required Accessory	
0TB704.9	Accessory terminal block, 4-pin, screw clamp, 1.5 mm²	
0TB704.91	Accessory terminal block, 4-pin, cage clamps, 2.5 mm²	

Table 1: IF771 order data

1.1.3 Technical Data

Product ID	IF771
Short Description	
Communication Module	1 x CAN Bus
interfaces	
Interface IF1 Type Design Maximum Transfer Rate	 CAN bus 4-pin multipoint connector 500 kBit/sec
General Information	
Status Display	Send/receive data for IF1
Diagnostics Data Transfer	 Yes, with status LEDs
Electrical Isolation PLC - IF1	 Yes
Power Input 3.3 V 5 V Total	 0.64 W 0.66 W 1.3 W
Certification	CE, GOST-R
Mechanical Characteristics	
Slot	Insert e.g. in CP360
Protection	IP20
Operating/Storage Temperature	0 °C to +60 °C / -25 °C to +70 °C
Humidity	5 to 95% (non-condensing)
Note	Order 1 x TB704 terminal block separately

Table 2: IF771 technical data

1.1.4 Additional Technical Data

Product ID	IF771
IF1 Interface, CAN Bus	
Controller	Controller SJA 1000
Maximum Distance	1000 m
Maximum Transfer Rate Bus Length ≤60 m Bus Length ≤200 m Bus Length ≤1,000 m	 500 kBit/sec 250 kBit/sec 50 kBit/sec
Network Capable	Yes
Bus Termination Resistor	Externally wired (optional)

Table 3: IF771 additional technical data

1.1.5 Operational and Connection Elements

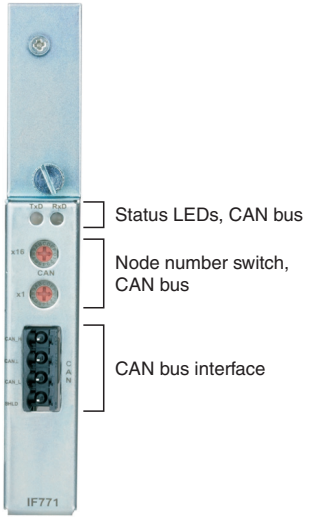


Figure 1: IF771 operational and connection elements

1.1.6 Status Display

Image	LED	Color	Description
CAN bus 	TxD	Orange	The module sends data via the CAN bus interface.
	RXD	Orange	The module receives data via the CAN bus interface.

Table 4: IF771 status display CAN bus interface

1.1.7 CAN Bus Node Number



Figure 2: IF771 CAN bus node number switch

The node number for the CAN bus interface (IF1) is set with the two hex switches.

1.1.8 CAN Bus Interface (IF1)

A 120 Ω bus terminating resistor is included with delivery. The resistor can be inserted between pin 1 and pin 3.

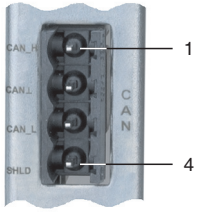
Interface	Description	Pin Assignments		
Application Interface CAN bus  4-pin multipoint connector	The electrically isolated CAN bus interface is a 4-pin multipoint connector. Maximum Transfer Rate: 500 kBit/s bus length: ≤60 m 250 kBit/s bus length: ≤200 m 50 kBit/s bus length: ≤1000 m	**Terminal**	**CAN bus**	
		1	CAN_H	CAN High
		2	CAN⊥	CAN Ground
		3	CAN_L	CAN Low
		4	SHLD	Shield

Table 5: IF771 CAN bus Interface (IF1)

1.1.9 Firmware

SG3

The IF771 module is not supported.

SG4

The firmware is a component of the PLC operating system of B&R Automation Runtime™. It is loaded to the IF771 module during every restart.