

15.9 IF671

15.9.1 General Information

The IF671 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, an RS485/RS422 interface and a CAN interface.

15.9.2 Order Data


Model Number	Short Description	Image
	Interface Module	
3IF671.9	2005 interface module, 1 RS232 interface, 1 RS485/RS422 interface, electrically isolated, network capable, 1 CAN interface, electrically isolated, network capable, CPU and IF-module insert	
	Accessories	
0G0001.00-090	Cable PC <-> PLC/PW, RS232, online cable	
0G1000.00-090	Bus connector, RS485, for PROFIBUS networks, remote I/O	
0AC916.9	Bus termination, RS485, active, for PROFIBUS networks, remote I/O, standard mounting rail installation, supply voltage: 120 / 230 VAC	
Additional accessories see sections "Accessories" and "Manuals".		

Table 341: IF671 order data

15.9.3 Technical Data

Product ID	IF671
General Information	
C-UL-US Listed	Yes
Slot	Insert e.g. in CP260, IF260, IF060
Interfaces	1 x RS232 1 x RS485/RS422 1 x CAN
Power Consumption 5 V 24 V Total	Max. 2 W --- Max. 2 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 Interface IF2	
Type	RS485/RS422
Controller	UART Type ST16C650
FIFO	32 bytes in send and receive direction
Design	9-pin DSUB socket
Electrical Isolation IF1 - PLC IF1 - IF2	Yes Yes
Input Filter / Protective Circuit	Yes
Maximum Distance	1,200 m
Maximum Baud Rate	115.2 kBaud
Network Capable	Yes
Bus Termination Resistor	External T-connector (0G1000.00-090)

Table 342: IF671 technical data

Product ID	IF671
Application Interface IF3	
Type	CAN
Controller	Controller 82527
Design	4-pin multipoint connector
Electrical Isolation	Yes
Maximum Distance	1,000 m
Maximum Baud Rate	
Bus Length ≤60 m	500 kBit/s
Bus Length ≤200m	250 kBit/s
Bus Length ≤1,000 m	50 kBit/s
Network Capable	Yes
Bus Termination Resistor	Optional (externally wired)
CAN node number	Can be set using software

Table 342: IF671 technical data (cont.)

15.9.4 Operational and Connection Elements

Status LEDs indicate whether data is being received (RXD) or sent (TXD).

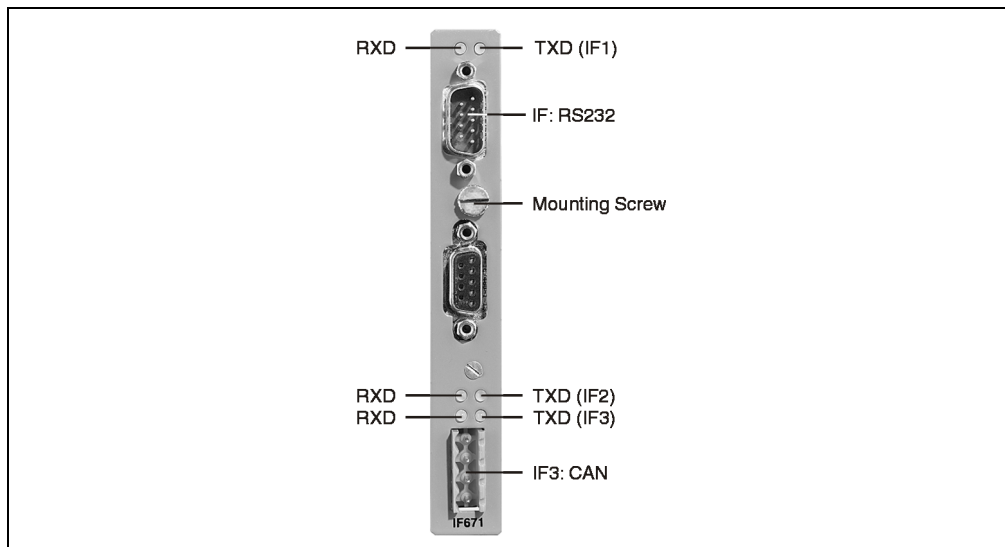


Figure 188: IF671 operational and connection elements

15.9.5 RS232 Interface (IF1)

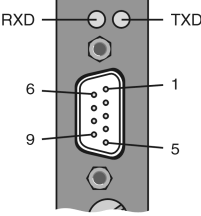
Interface	Description	Pin Assignments		
		Pin	RS232	
<p>Application interface RS232</p>  <p>9-pin DSUB plug</p>	<p>The standard RS232 interface is not electrically isolated.</p> <p>LEDs show on the interface whether data is being received (RXD) or sent (TXD).</p> <p>The shield is connected to the DSUB connectors housing.</p> <p>Max. Baud Rate: 115.2 kBaud Max. Cable Length: 15 m</p>	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 343: IF671 RS232 Interface (IF1)

15.9.6 RS485/RS422 Interface (IF2)

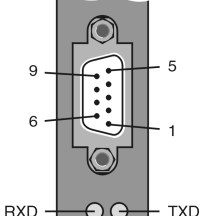
Interface	Description	Pin Assignments		
		Pin	RS485	RS422
<p>Application interface RS485/RS422</p>  <p>9-pin DSUB socket</p>	<p>The RS485/RS422 interface is electrically isolated.</p> <p>LEDs below the interface indicate whether data is being received (RXD) or sent (TXD).</p> <p>The shield is connected to the DSUB socket's housing.</p> <p>Max. Baud Rate: 115.2 kBaud Max. Cable Length: 1,200 m</p>	1	Shield	Shield
		2	res.	TXD ¹⁾
		3	DATA	RXD
		4	res.	res.
		5	GND	GND
		6	5 V / 50 mA	5 V / 50 mA
		7	res.	TXD\ ¹⁾
		8	DATA\	RXD\
		9	res.	res.

Table 344: IF671 RS485/RS422 interface (IF2)

1) RS422 send data is TRISTATE capable.

15.9.7 CAN Interface (IF3)

A 4-pin terminal block and an 120 Ω bus termination resistor are included in the delivery. The resistor can be inserted between pin 1 and pin 3.

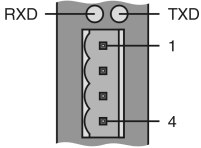
Interface	Description	Pin Assignments	
		Terminal	CAN
<p>Application interface CAN</p>  <p>4-pin Multipoint connector</p>	<p>The electrically isolated CAN interface is a 4-pin multipoint connector.</p> <p>LEDs show on the interface whether data is being received (RXD) or sent (TXD).</p> <p>Max. Baud Rate:</p> <p>500 kBit/s Bus Length: ≤60 m 250 kBit/s Bus Length: ≤200 m 50 kBit/s Bus Length: ≤1,000 m</p>	1	CAN_H
		2	GND
		3	CAN_L
		4	Shield

Table 345: IF671 CAN interface (IF3)