

15.11 IF681

15.11.1 General Information

The IF681 interface module can be operated e.g. in an interface module slot on the CP260 or in the IF260.

The module is equipped with an RS232 interface and an ETHERNET interface.

The IF681 module is available in two versions. The modules differ from one another with regard to their ETHERNET connection:

Model Number	ETHERNET Connection
3IF681.95	10BASE2: CHEAPERNET BNC socket
3IF681.96	10BASE-T: Twisted Pair RJ45 socket

15.11.2 Order Data

Model Number	Short Description	Image
	Interface Modules	
3IF681.95	2005 interface module, 1 RS232 interface, 1 ETHERNET interface, with 10BASE2 CHEAPERNET BNC socket	
3IF681.96	2005 interface module, 1 RS232 interface, 1 ETHERNET interface, with 10BASE-T Twisted Pair RJ45 socket	
	Accessories	
0G0001.00-090	Cable PC <-> PLC/PW, RS232, online cable	

Table 350: IF681 order data

15.11.3 Technical Data

Product ID	IF681.95		IF681.96	
General Information				
C-UL-US Listed	Yes			
Slot	Insert e.g. in CP260, IF260			
Interfaces	1 x RS232 1 x ETHERNET			
Power Consumption				
5 V	Max. 2.4 W		Max. 1.65 W	
24 V	---		---	
Total	Max. 2.4 W		Max. 1.65 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	5 to 8			
Parity	Yes / No / Even / Odd			
Stop Bits	1 / 2			
Application Interface IF2				
Type	ETHERNET			
Design	10BASE2: CHEAPERNET BNC socket		10BASE-T: twisted pair RJ45 socket	
Electrical Isolation	Yes			
Controller	Controller AM79C960			
Send and receive buffer	128 KB			
Maximum Baud Rate	10 MBit/s			
Bus Capable	Yes			

Table 351: IF681 technical data

15.11.4 Operational and Connection Elements

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

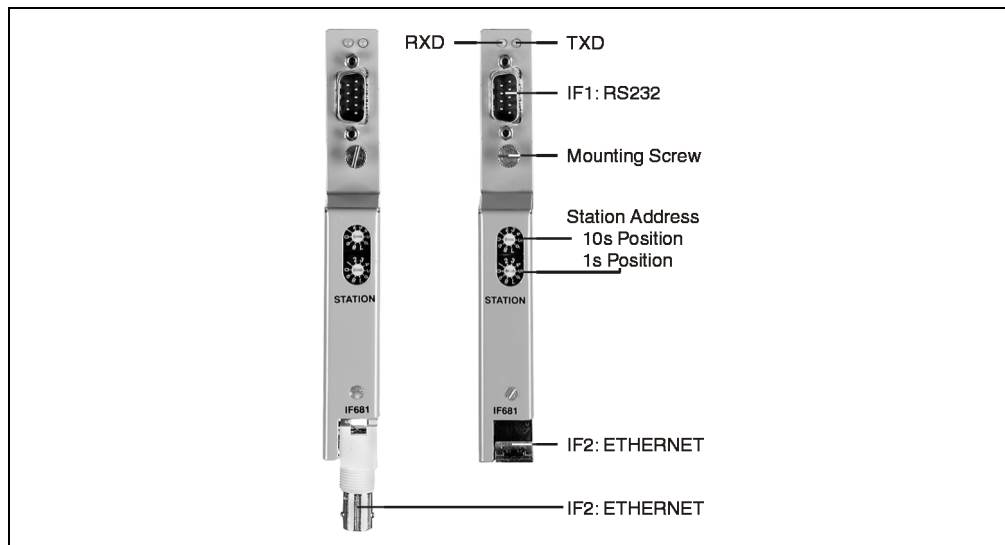


Figure 190: IF681 operational and connection elements

15.11.5 Station Number Dial

The INA2000 station number for the ETHERNET interface is set with both BCD dials.

15.11.6 RS232 Interface (IF1)

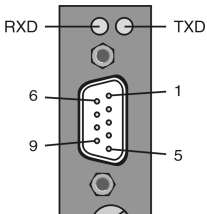
Interface	Description	Pin Assignments		
		Pin	RS232	
Application interface RS232  9-pin DSUB plug	The standard RS232 interface is not electrically isolated. LEDs show on the interface whether data is being received (RXD) or sent (TXD). The shield is connected to the DSUB connectors housing. Max. Baud Rate: 115.2 kBaud Max. Cable Length: 15 m	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 352: IF681 RS232 interface (IF1)

15.11.7 Application Interface (IF2)

IF2 is an ETHERNET interface. The connection is made for each module using a 10BASE2 CHEAPERNET BNC socket or a 10BASE-T Twisted Pair RJ45 socket.