

1.1 IF761

1.1.1 General Information

The IF761 interface module is an aPCI module and can be installed in all corresponding interface module slots (e. g. in the CP360).

The IF761 is equipped with a RS232 interface and a Profibus DP slave interface and can be used as a slave in a Profibus DP network.

1.1.2 Order Data

Model number	Short Description	Image
	Interface Module	
	Optional Accessory	
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	

Table 1: IF761 order data

1.1.3 Technical Data

Product ID	IF761
Short Description	
Communication Module	1 x RS232, 1 x Profibus DP slave
Interfaces	
Interface IF1 Type Design Maximum Transfer Rate	RS232 9-pin DSUB plug 115.2 kBit/sec

Table 2: IF761 technical data

Product ID	IF761
Interface IF2 Fieldbus Type Design Maximum Transfer Rate	Profibus DP Slave RS485 9-pin DSUB socket 12 MBit/s
General Information	
Status Display	Send/receive data via interface
Diagnostics Data Transfer	Yes, with status LEDs
Electrical Isolation PLC - IF1 PLC - IF2 IF1 - IF2	No Yes Yes
Power Input 3.3 V 5 V Total	0.15 W 1.2 W 1.35 W
Certification	CE, C-UL-US, 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)

Table 2: IF761 technical data (cont.)

1.1.4 Additional Technical Data

Product ID	IF761
IF1 interface, RS232	
Controller	UART Type 16C550 compatible
FIFO	16 bytes in send and receive direction
Input Filter / Protective Circuit	Yes
Maximum Distance	15 m / 19,200 Bit/sec
Handshake Lines	RTS, CTS
Network Capable	No
Data Formats Data Bits Parity Stop Bits	5 to 8 Yes / No / Even / Odd 1 / 2

Table 3: IF761 additional technical data

Product ID	IF761
IF2 interface, profibus DP slave	
Controller	ASIC SPC3
RAM	1.5 KB
Maximum Distance	1000 m
Maximum Transfer Rate	
Bus Length <100 m	12 MBit/s
Bus Length <200 m	1.5 MBit/s
Bus Length <400 m	500 kBit/sec
Bus Length <1,000 m	187.5 kBit/sec
Network Capable	Yes
Bus Termination Resistor	External T-connector (0G1000.00-090)

Table 3: IF761 additional technical data (cont.)

1.1.5 Operational and Connection Elements

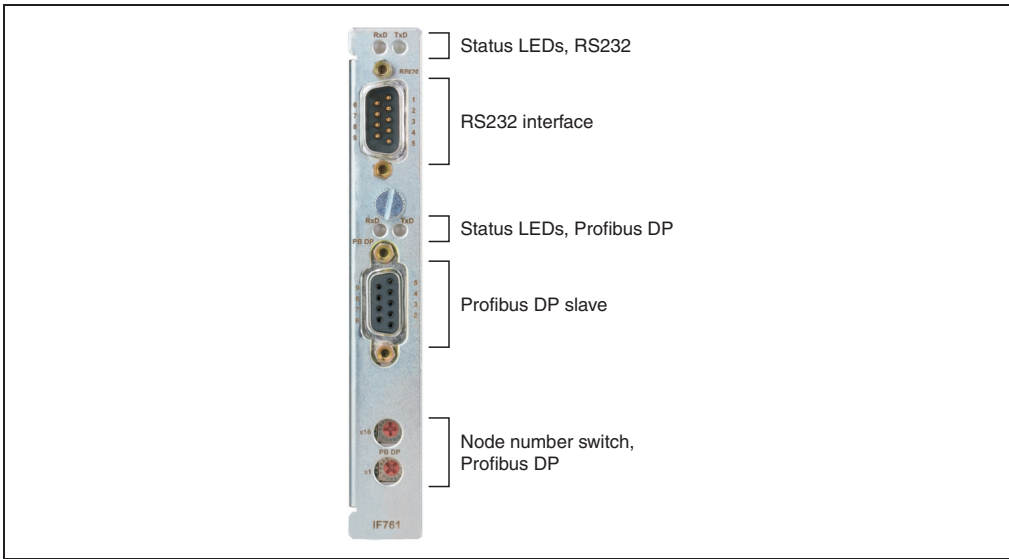


Figure 1: IF761 operational and connection elements

1.1.6 Status Display RS232 Interface

Image	LED	Color	Description
	RXD	Orange	The module receives data via the RS232 interface.
	TxD	Orange	The module sends data via the RS232 interface.

Table 4: IF761 status display RS232 interface

1.1.7 Status Display Profibus DP Slave Interface

Image	LED	Color	Description
	RxD	Orange	The module receives data via the Profibus DP slave interface.
	TxD	Orange	The module sends data via the Profibus DP slave interface.

Table 5: IF761 status display Profibus DP slave interface

1.1.8 RS232 Interface (IF1)

Interface	Description	Pin Assignments		
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. Maximum Transfer Rate: 115.2 kBit/s 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 6: IF761 RS232 interface (IF1)

1.1.9 Profibus DP slave node number

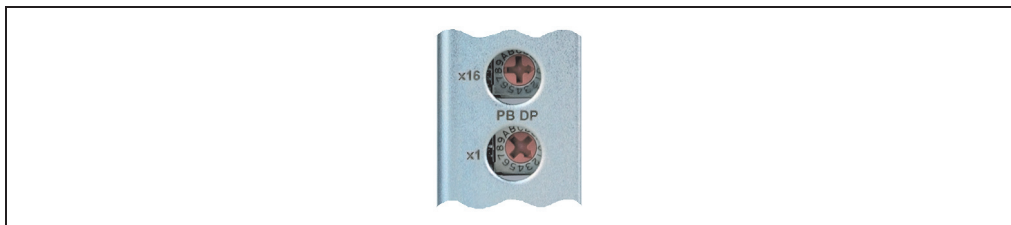


Figure 2: IF761 Profibus DP slave node number switch

The node numbers for the Profibus DP Slave interface (IF2) is set with the two hex switches.

1.1.10 Profibus DP Slave Interface (IF2)

Interface	Description	Pin Assignments	
Application Interface Profibus DP Slave  9-pin DSUB socket	The electrically isolated RS485 interface is used for coupling to a Profibus DP slave network. LEDs show on the interface whether data is being received (RxD) or sent (TxD). The shield is connected to the DSUB socket's housing. Maximum Transfer Rate: 12 MBit/s	Pin	RS485
		1	Reserved
		2	Reserved
		3	RxD/TxD-P Data
		4	CNTR-P Transmit enable
		5	DGND Electrically isolated supply
		6	VP Electrically isolated supply
		7	Reserved
		8	RxD/TxD-N Data\
		9	CNTR-N Transmit Enable\
		CNTR ... Directional switch for external repeater	

Table 7: IF761 Profibus DP slave interface (IF2)

1.1.11 Firmware

SG3

The IF761 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 IF761 module during every restart.

