15.6 IF621

15.6.1 General Information

The IF621 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 RS485/RS422 interface and a CAN interface.

The RS485/RS422 interface is used mostly for visualization and networking based on different protocols (e.g. NET2000).

15.6.2 Order Data

Model Number	Short Description	Image
	Interface Module	
3IF621.9	2005 interface module, 1 RS485/RS422 interface, 1 CAN interface, both electrically isolated and network capable, insert for CPU and IF-modules	
	Accessories	
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 330: IF621 order data

15.6.3 Technical Data

Product ID	IF621
General Information	
C-UL-US Listed	Yes
Slot	Insert e.g. in CP260, IF260, IF060
Interfaces	1 x RS485/RS422 1 x CAN
Power Consumption 5 V 24 V Total	 Max. 1.5 W --- Max. 1.5 W
Application Interface IF1	
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)
Application Interface IF2	
Type	CAN
Controller	Controller 82527
Design	4-pin multipoint connector
Electrical Isolation IF2 - PLC IF1 - IF2	 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 331: IF621 technical data

15.6.4 Operational and Connection Elements

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

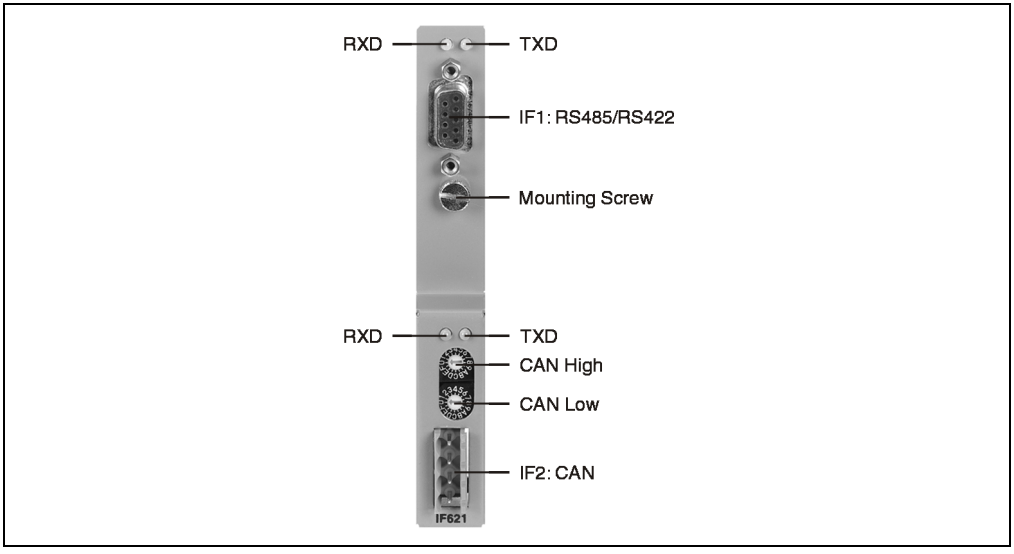


Figure 185: IF621 operational and connection elements

15.6.5 CAN Node Number Switch

The CAN node number is set with the two hex switches. CAN node numbers can also be set using the software.

15.6.6 RS485/RS422 Interfaces (IF1)

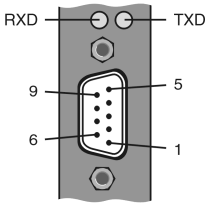
Interface	Description	Pin Assignments		
Application interface RS485/RS422  9-pin DSUB socket	The RS485/RS422 interface is electrically isolated. LEDs show on the interface whether data is being received (RXD) or sent (TXD). The shield is connected to the DSUB socket's housing. Max. Baud Rate: 115.2 kBaud Max. Cable Length: 1,200 m	Pin	RS485	RS422
		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 332: IF621 RS485/RS422 interfaces (IF1)

1) RS422 send data is TRISTATE capable.

15.6.7 CAN Interface (IF2)

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.

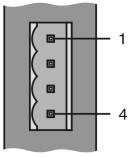
Interface	Description	Pin Assignments	
Application interface CAN  4-pin Multipoint connector	The electrically isolated CAN interface is a 4-pin multipoint connector. LEDs show on the interface whether data is being received (RXD) or sent (TXD). Max. Baud Rate: 500 kBit/s Bus Length: ≤60 m 250 kBit/s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

Table 333: IF621 CAN interface (IF2)