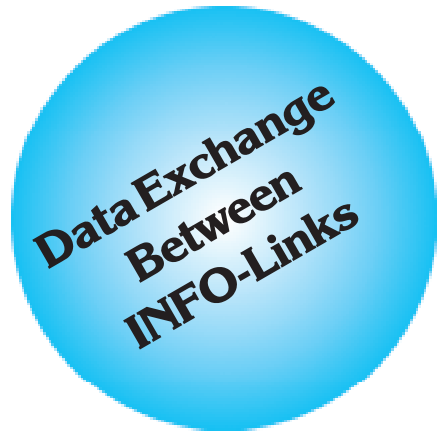


Data Exchange

INFO-DEX



Technical Data

Transfer storage

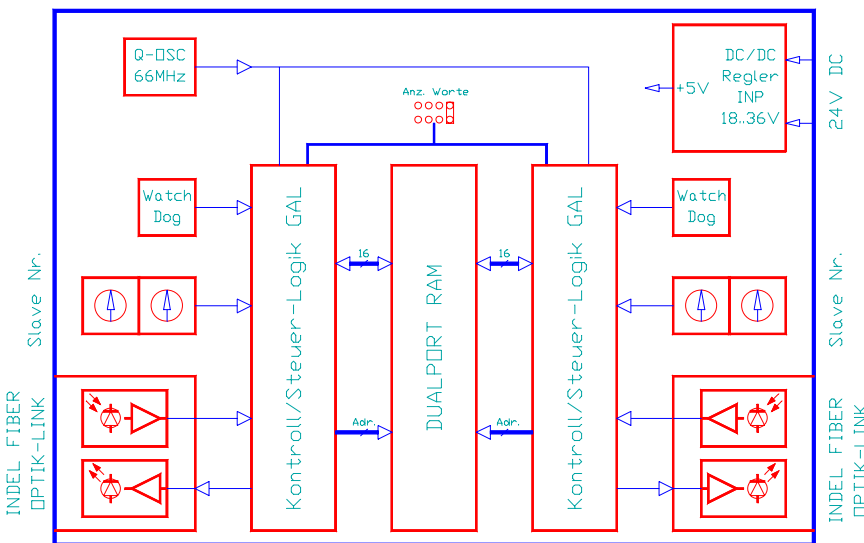
- Data storage: as required 1, 2, 4, 8 or 16 words (16Bit) in both directions

Transmission rate

- 11MBit/s

The INFO-DEX board serves for the fast data exchange between two independent INFO-Masters, for example for product transfers and tracking in linked-up production lines. The data is transferred in a Dualport-RAM and buffered. The board is addressed by the Master

in the same way as an I/O module and therefore does not require any special firmware. The board address can be set for both sides as required and independently. The only condition is that this address is not allocated to another INFO-16P or DEX board.



OrderNo. INFO-DEX 95202-DEX

Mode of Operation

The two masters communicate with each other via the INFO-DEX board. The data is buffered on the board in the Dualport RAM.

For both directions, a separate channel exists (duplex operation). The output data of Master 1 is the input data of Master 2 and vice versa.

Board address

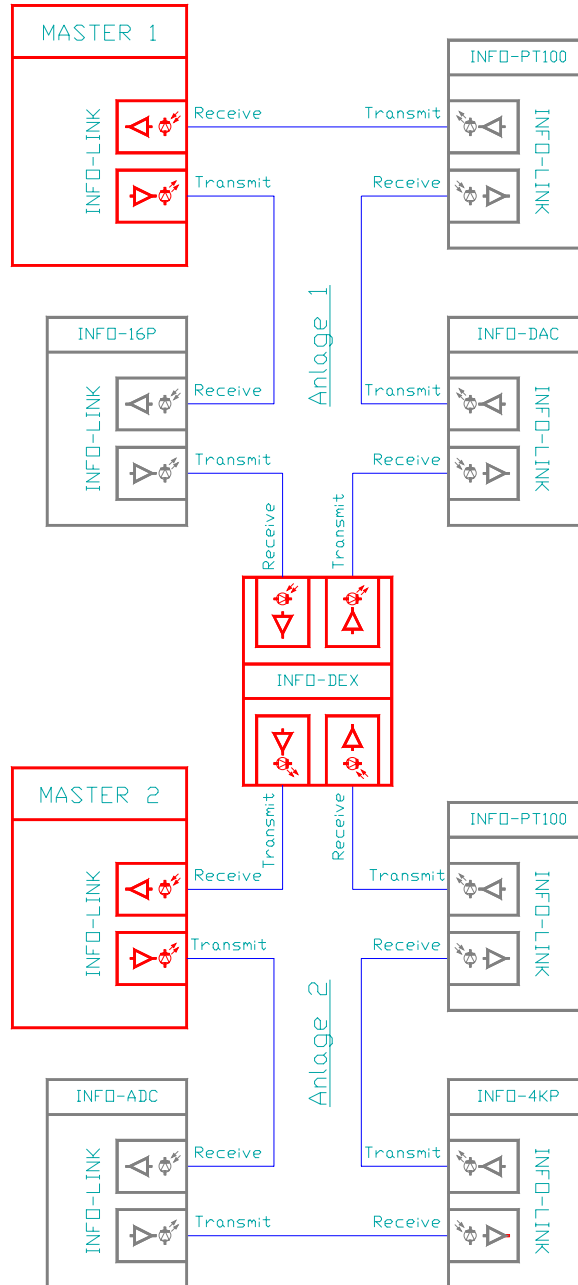
The transfer width is 1,2,4,8 or 16 data words, as required. Each data word is allocated one I/O address.

If, for example, a floating point number is transferred, a transfer width of 4 words is required.

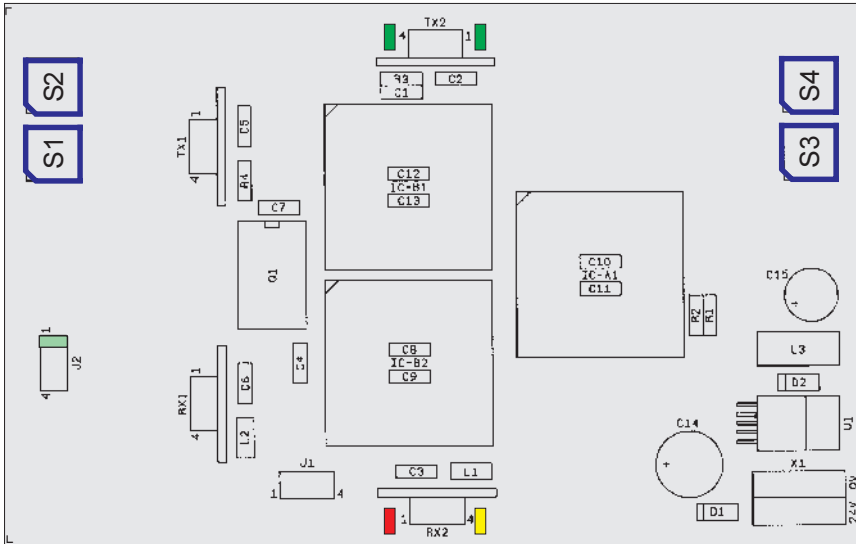
With a transfer width of more than one word, the board will occupy corresponding number of consecutive I/O addresses. The appropriate basic address is defined by means of the rotary switch. Observe the following point in this connection:

The basic address must be a multiple of the transfer width, i.e. with 8 data words, the only address switch positions allowed are (S2, S1) 00h, 08h, 10h, ... , F8h.

Connection Example



Assembly



Addressing (blue)

Basic address:	S2,S4 (X0)	S1,S3 (0Y)	DEXboard
(See board address) 0	0	0	

	F0	0F	X

Jumpers (green)

The jumpers influence the illumination intensity of the emitting LED and thereby the segment length of the fiberoptic cable to the next board.

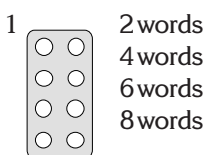
Segment length	Jumper position
0 ... 10m	no jumper
8 ... 30m	> 10
20 ... 50m	> 30

LEDs on receiver module

- LED-red = +5V power supply
- LED-yellow = INFO-Link receiver signal OK

Jumper (light green)

With jumper J2, the number of 16Bit words to be transferred is specified. No jumper means that 1 word is transferred.



Specifications

Transfer storage

- Data storage: as required 1, 2, 4, 8 or 16 words (16Bit) in both directions.

Climatic conditions

- Ambient temperature:
 - Storage: -20...+80°C
 - Operation: 0 ... +45°C
- Board temperature:
 - Operation: 0...+70 °C
- Relative air humidity no condensation: 95%

Power supply

- Voltage: +24V
- Current: 112mA

Mounting

- Connector DIN 41612, Type F-48
- Mounting on 35mm DIN bar
- Dimensions: 105 x 165 x 45mm (WxDxH)

Customized modifications are available as needed.