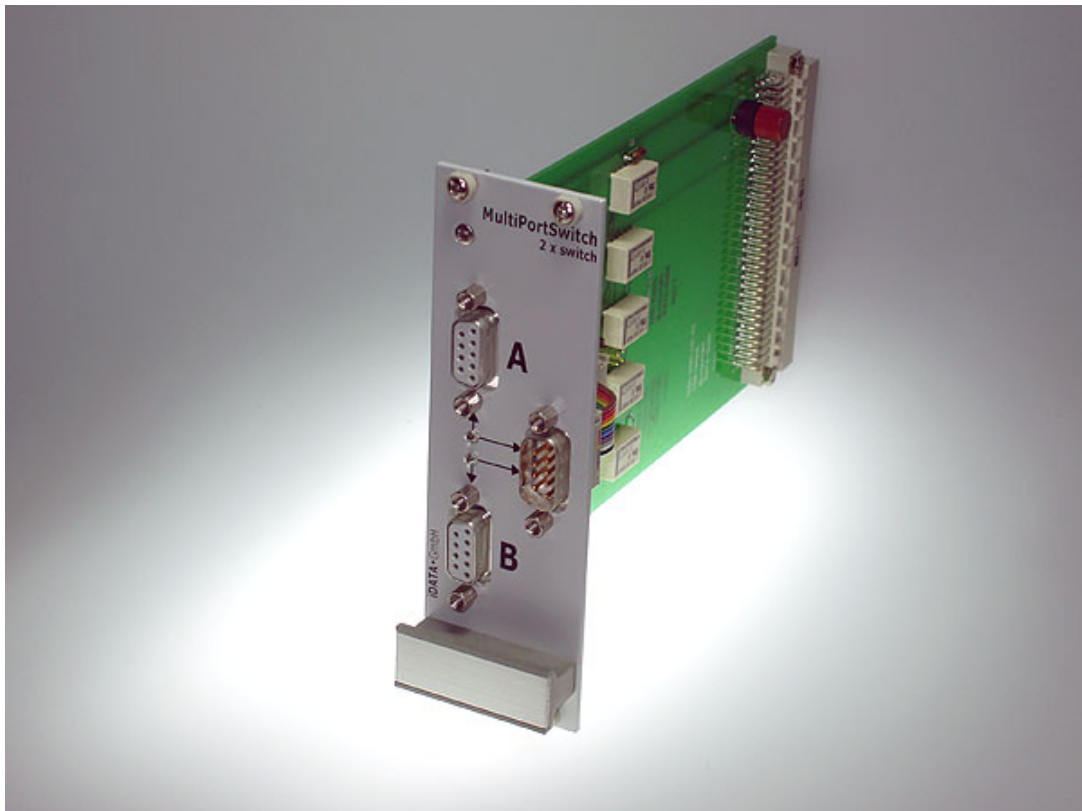


## MultiPortSwitch



### COM changeover switch RS-232 - V.24 - interface

## Document version:

Version	Date	Name	Comment
1.00	01.08.2003	J. Klein	compiled
1.10	14.02.2006	R. Wuppinger	Pin-Belegung 96-polige Stiftleiste added

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## 1 Function

### 1.1 General

The COM RS-232 change-over switch is equipped with two 9pole SUB-D plug sockets and one 9pole SUB-D plug which are mounted on the front cover:

- Plug socket A 9pole SUB-D
- Plug socket B 9pole SUB-D
- Plug plug SOCKET common 9pole SUB-D

### 1.2 Change-over function

The change-over function redirects all nine signal lines of each RS-232-plug connector. The active signal line (**A** ↔ **Common** and **B** ↔ **Common** respectively) is displayed via LED (see page6 - Illustration: Operating mode).

### 1.3 Installation

The COM RS-232 change-over switch is a passive IT-product that is used in connection with IT-components, such as PCs, PC-networks, network-components, etc. The COM RS-232 change-over switch is installed into active data channels of respective IT-devices. Therefore, its installation may be carried out only by experienced IT-specialists.

Disconnect all components and devices from their electricity supply before installing the COM RS-232 change-over switch.

Exercise great caution while connecting the cables: Make sure that a particular data channel's wires are connected only to the respectively labelled plug sockets on the COM RS-232 change-over switch.

Any improper connection of the wires (i.e. accidental permutation of wires or the use of external wires) may result in faulty service, severe system damage up to destruction of all connected components

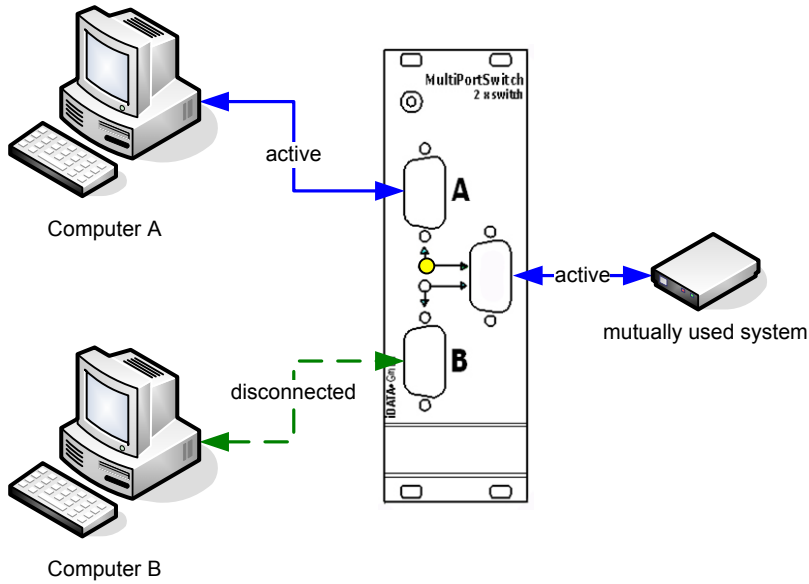
### 1.4 Directions for use and limitations

The COM RS-232 change-over switch facilitates physical redirection of data channels, which is tantamount to dis-/connecting data channels by manually plugging or unplugging wires.

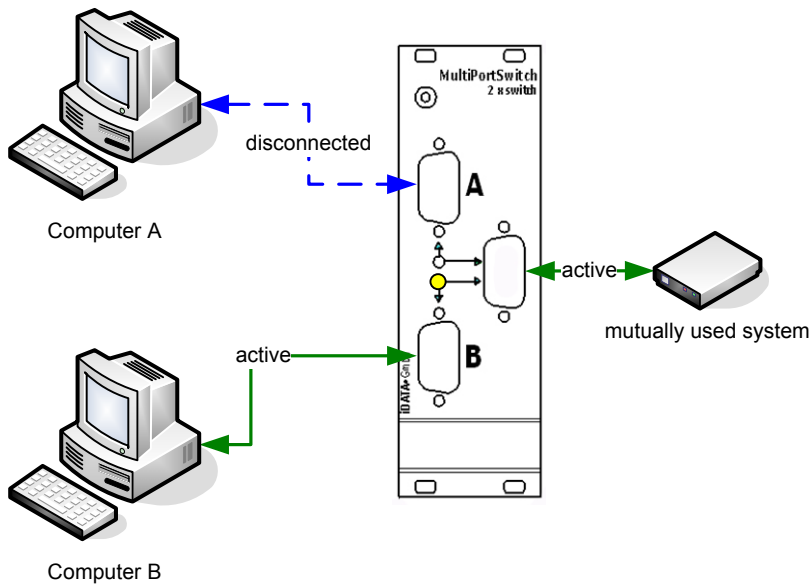
This implies that any accidental switching, i.e. while data transfer is in progress, may lead to defective system performance.

## 2 Illustration: Operating mode

Function: A ↔ Common



Function: B ↔ Common



## 3 Hardware

### 3.1 Casing

Front cover	Aluminium
Colour	light grey (RAL 7035)
Height	3 HE
Width	8 TE
Depth	172 mm (without handle bar)

### 3.2 Mounting options

Available casings

- 19"-table-mounted casing
- 19"-slide-in casing

Mounting direction

- front panel (Optional - please specify when ordering)
- rear panel (Standard)

### 3.3 Plug versions

- Plug socket A           9pole SUB-D
- Plug socket B           9pole SUB-D
- Plug Common           9pole SUB-D

### 3.4 Compatibility

Full hardware compatibility of all RS 232 signals.

### 3.5 Switching characteristics

The change-over of all nine signal conductors implemented in the RS-232 plug sockets is carried out by mechanical relays. Each of these relays is capable of approx.  $5 \times 10^5$  circuits at 20 switches/minute and 1 ampere load current.

### 3.6 EMC-performance

In order to improve EMC-performance, the COM RS-232 circuit board is constructed using multilayer-technology with extra shielding layers.

### 3.7 Voltage supply

- 24 volts via the MultiPortSwitch slide-in power supply unit.

## 3.8 Idle state

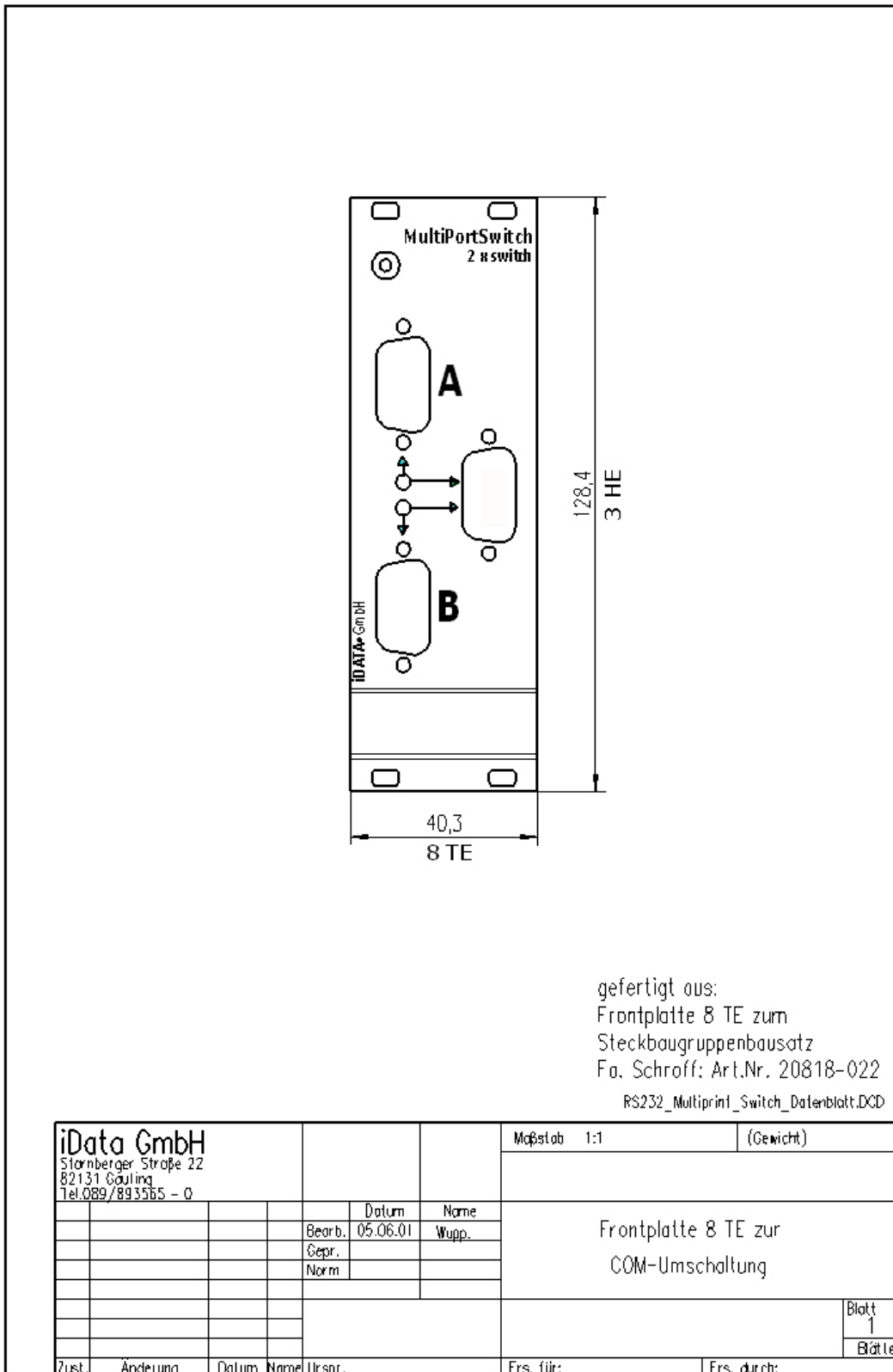
Data channel (**A** ↔ **Common**) is activated - **independent** of the switch setting - when the COM RS-232 change-over switch is in idle state

## 3.9 Warranty

The COM RS-232 change-over switch is provided with a 36 month bring-in warranty. All damage caused by improper handling is exempt from that warranty.



## 4 Illustration: Front cover



## 5 PIN-definition 96-polige connector

Pin-Belegung 96 pol. Stiftleiste DIN 41612	
Pin	Signalname / Funktion
a1	0-Volt
b1	0-Volt
b1	0-Volt
a2	unbelegt
b2	unbelegt
c2	unbelegt
a3	+24V
b3	+24V
c3	+24V
a9	Selektion: (A = offen , B = 0-Volt ) stromloser Zustand = Selektion A
b9	
c9	
alle nicht aufgeführten Pin sind unbelegt	
a31	reserviert
b31	reserviert
c31	reserviert
a32	reserviert
b32	reserviert
c32	reserviert

Hinweis: obige Selektion gilt für die Platinen ab Sachnummer D100-A061-L01-03  
Bei Sachnummern D100-A061-L01-01/02 ist die Selektion invertiert,  
d.h. Selektion: (B = offen / stromlos, A = 0-Volt)

Steckerbelegung\_96pol\_Stiftleiste.docd

iData GmbH Starnberger Straße 22 82131 Gauting Tel. 089/893565 - 0		Maßstab 1:1		(Gewicht)
		MultiPortSwitch Pin - Belegung 96 pol. Stiftleiste		
		Datum	Name	
		Bearb.	12.01.2004	Thrupp.
		Gepr.		
		Norm		
				D100 - A061 - H05- 01
				Blatt
				Blätter
Zust.	Änderung	Datum	Name	Urspr.
			Ers. fdr:	Ers. durch: