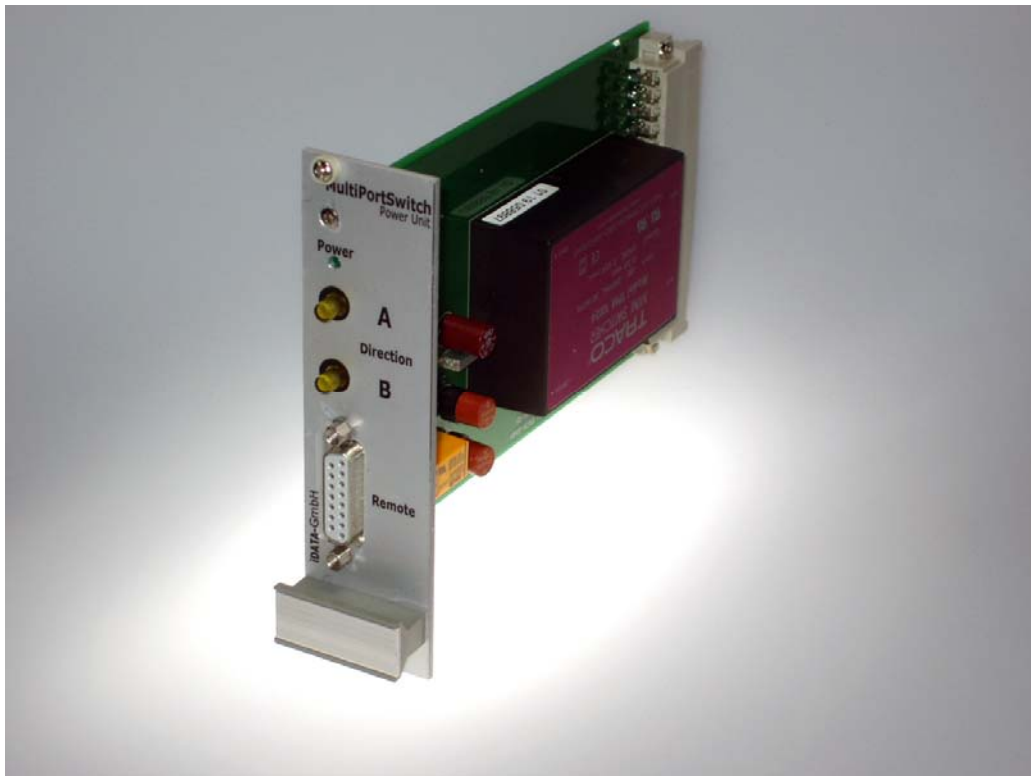


MultiPortSwitch



Power-Unit/Remote

Document version:

Version	Date	Name	Comment
1.00	07.01.2004	R. Wuppinger	compiled
1.01	26.03.2004	J. Klein	modifications (Unit V5)
1.04	18.08.2006	R. Wuppinger	Pin Belegung Mischleiste eingefügt

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1 Function

1.1 General

The Power-Unit is equipped with a change-over switch **(A/B)** that is mounted on its front cover. It also features a plug socket allowing for either remote-switching, or cascading in order to facilitate the use of an unlimited number of change-over modules in several 19" slots.

1.2 Change-over function

The Power-Unit is capable of sending a gating signal **(A/B)**, which changes-over all connected MultiPortSwitch-modules. A change-over can be carried out either manually using a switch mounted on the front cover, or via remote control (see 1.3 Remote-function).

1.3 Remote-function

The remote-function provides for long-distance change-overs **(A/B)** (i.e. from the control room).

1.4 Installation

The Power-Unit is a passive IT-product that is used in connection with IT-components, such as PCs, PC-networks, network-components, etc. The Power-Unit 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 Power-Unit.

Exercise great caution while connecting the wires: Both the correct PIN-assignment and the appropriate Power-Unit configuration have to be bridged ("jumped"), especially when using the remote-control.

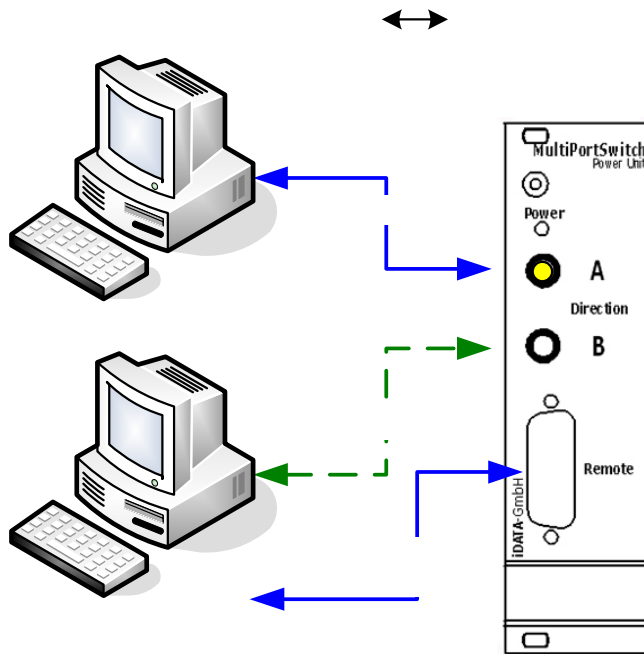
Any improper connection of the wires (i.e. accidental permutation of wires or the use of external wires) may result in faulty service, severe system damage up to destruction of all connected components

1.5 Directions for use and limitations

The Power-Unit supplies a voltage to all connected MultiPortSwitch-modules. In turn, the modules provide for an accurately defined switching of physically separated data lines – this process is tantamount to changing-over the data lines by manually plugging or unplugging them.

Consequently, any uncontrolled switching on/off of the Power-Unit – e.g. during data-transmission – may result in faulty system performance.

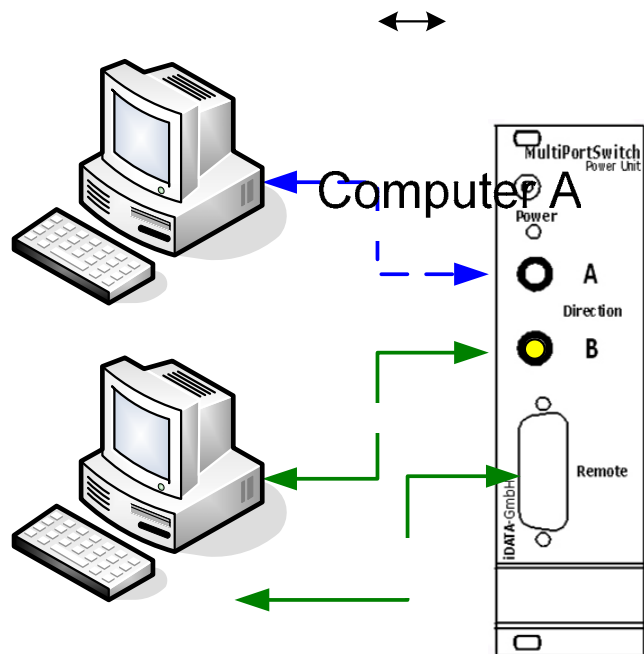
2 Illustration: Operating mode



Function: A

Common

active



Computer A

disconnected

remote
line

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 Plug version

Plug socket Remote: Sub-D 15-pole according to DIN 41652

3.3 Switching characteristics

Change-over is carried out by mechanical relays featuring approx. 5×10^5 circuits at 20 switches/minute and 1 ampere load current.

3.4 EMC-performance

In order to improve EMC-performance, the circuit board is constructed using multi-layer-technology with extra shielding layers

3.5 Voltage supply

110-220 Volt

3.6 Idle state

Data channel (**A**) is activated - **independent** of the current switch setting - when the Power-Unit is in idle state

3.7 Warranty

The Power-Unit is provided with a 36 month bring-in warranty. All damage caused by improper handling is exempt from that warranty

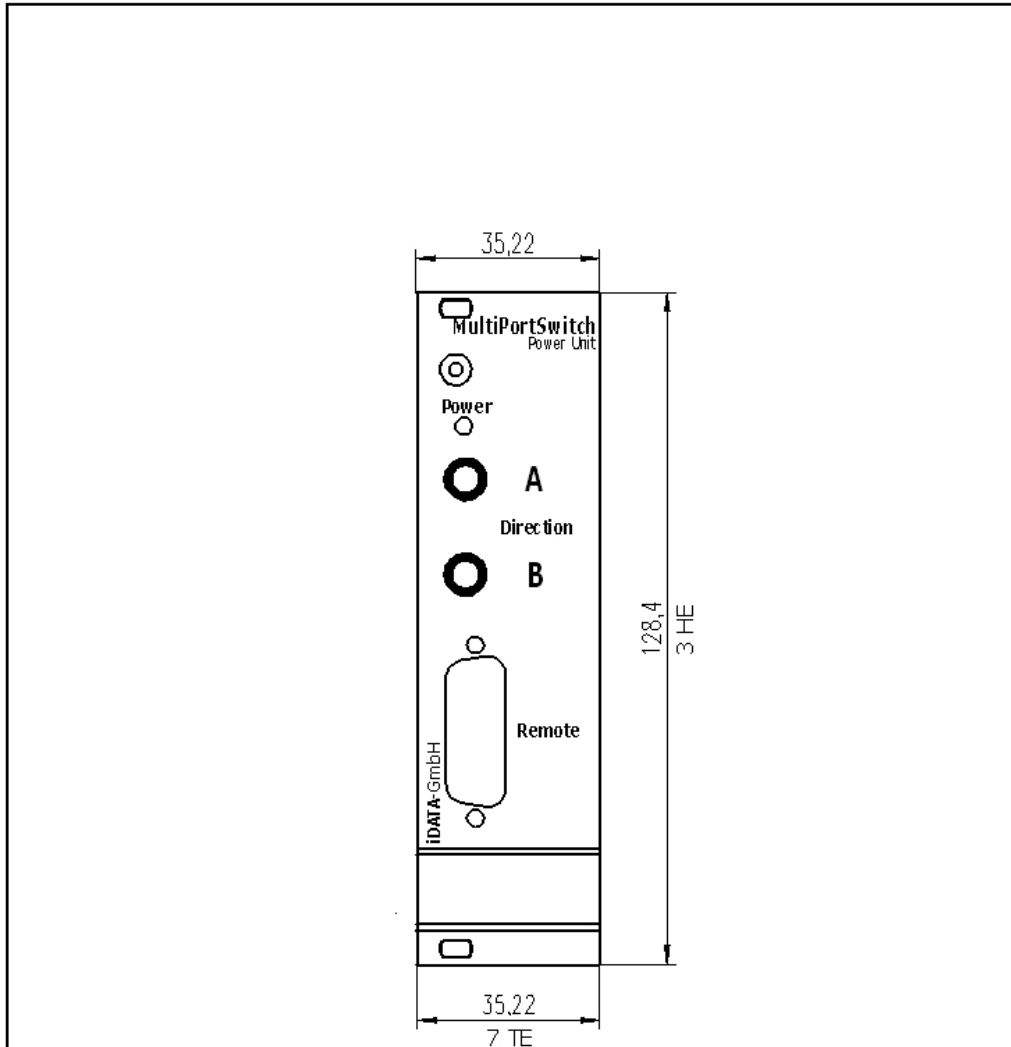
4 Plug assignment DIN41652

Pin-Belegung

15 pol. Sub-D-Buchse DIN 41652

Pin	Signalname / Funktion	
1	unbelegt	
2	unbelegt	
3	unbelegt	
4	unbelegt	
5	unbelegt	
6	Kontakt 1	Kontakt 1 schliesst wenn A selektiert ist Kontakt 2 ist dann offen
7	Kontakt 1	
8	Kontakt 2	Kontakt 2 schliesst wenn B selektiert ist Kontakt 1 ist dann offen
9	Kontakt 2	
10	2,7k Widerstand gegen +24V (LED Strombegrenzung)	
11	2,7k Widerstand gegen +24V (LED Strombegrenzung)	
12	+24V abgesichert mit 200 mA Sicherung träge	
13	B - Selektion (0V an diesem Pin selektiert B)	
14	A - Selektion (0V an diesem Pin selektiert A)	
15	0V (Bezugspotential zu +24V)	

5 Illustration: Front cover



gefertigt aus:
Frontplatte 7 TE zum
Steckbaugruppenbausatz
Fa. Schroff: Art.Nr. 20818-021

COM_NG_7TE_V5_Datenblatt.DCD

iData GmbH Starnberger Straße 22 82131 Gauting Tel.089/893565 - D				Maßstab 1:1 (Gewicht)		
		Datum	Name	MultiPortSwitch Power-Unit Frontplatte Version 5		
		Bearb.	Wupp.			
		Gepr.				
		Norm				
				D10D - AD62 - AD5- 01		
Zust.	Änderung	Datum	Name	Urspr.	Ers. für:	Ers. durch:

6 Plug assignment DIN41612

Pin-Belegung MultiPort Switch Power - Unit
Mischleiste 24/7 pol. Buchsenleiste DIN 41612

Pin	Signalname / Funktion	
z2	0 Volt	
b2	0 Volt	
d2	0 Volt	
z4	unbelegt	
b4	unbelegt	
d4	unbelegt	
z6	+24V	
b6	+24V	
d6	+24V	
z8	Selektion A: = 0 - Volt	
b8		Selektion B = 24 Volt
d8		
z10	Selektion A: = 24 V - Volt	
b10		Selektion B = 0 - Volt
d10		
b12	Rückmeldung Select A	
d12	Rückmeldung Select B	
z16	reserviert für 24 Volt intern	
b16		
d16		
z20	100 - 230 Volt~	
d22	100 - 230 Volt~	
z32	Schutzleiter	

alle nicht aufgeführten Pin sind unbelegt

Hinweis: Bei Verwendung der MPS-Power-Unit ab Version 6 bleibt die letzte Selektion bei Wiedereinschaltung der Netzspannung erhalten.

Steckerbelegung_Mischleiste.dcd

iData GmbH Starnberger Straße 22 82131 Gauting Tel. 089/893565 - 0		Maßstab 1:1		(Gewicht)		
		Datum Name Bearb. 14.08.2006 Wupp. Gepr. Norm			MultiPortSwitch Pin - Belegung Mischleiste 24/7	
			D100 - A061 - H06- 01	Blatt		
				Blätter		
Zust.	Änderung	Datum	Name	Urspr.	Ers. für:	Ers. durch: