AXR7510
Relay Switching Unit

TECHNICAL DATA SHEET

PXI
VXI
LAN
cPCI
PXIe
GPIB
USB
RS232
485
external
PCIe

Features

- Flexible relay switching unit allows powerful and flexible signal routing
- Currents up to 2,000 A (pulse)
- Voltages up to 3,000 V
- High density cards with up to 96 relays
- Various interfaces available
- High stability due to optical data interface

Product Information

The AXR7510 is a powerful switching unit. It allows flexible signal routing from any instrument pin to any DUT pin.

The AXR7510 Relay Switching Unit consists of two separate parts. The first unit (interface) is for communication via GPIB, USB or LAN.

The second part contains the matrix cards and is connected to the interface unit via fiber. This guarantees a high data transfer security even on high pulse currents within the matrix.

High Current Relay Cards (up to 10 cards each up to 18 relays)	**Specification**	**Comment**
Maximum current per card Number of parallelized cards	200 A 10	With duty cycle D ≤1/50 and t_{PULSE} ≤10 ms
Maximum standoff voltage	2,500 V	
Maximum switching voltage	250 V	
Typical path resistance	20 mΩ	

High Voltage Relay Cards (up to 10 cards each up to 48 relays)	**Specification**	**Comment**
Maximum current per path	1 A	
Maximum standoff voltage	3,000 V	
Maximum switching voltage	1,000 V	
Typical input capacitance	200 pF	

General Relay Cards (up to 20 cards each up to 96 relays)	**Specification**	**Comment**
Maximum current per path	5 A	
Maximum standoff voltage	2,500 V	
Maximum switching voltage	250 V	

Notes: All product data are specified for 1 year at an ambient temperature of 23°C ±5°C (after 1 hour warm-up time).
Product specification and description in this document are subject to change without notice.

VX Instruments GmbH
Phone: +49 871 93 15 55-0
E-Mail: sales@vxinstruments.com

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