

## Bidirectional 1:n Switches

### Core Function Products Series



#### Products

<b>DEV 1228</b>	1:8 Bidirectional Switch, 10...2300 MHz, 75 Ohm F(f)
<b>DEV 1236</b>	1:16 Bidirectional Switch, 10...2300 MHz, 75 Ohm F(f)

#### Description

The DEV 1228 and DEV 1236 are bidirectional switches for the frequency range 10...2300 MHz.

Each product is equipped with a single switch unit with either 8 ports (DEV 1228) or 16 ports (DEV 1236).

Optionally, the DEV 1236 can be ordered with one additional switch unit. The DEV 1228 can be ordered with up to three additional switch units.

Compared with DEV standard products, the Core Function Products provide the same superior RF transmission quality without certain features such as integrated redundant power supplies, monitoring ports, RF sensing and other alarm functionality.

#### Features

- ▀ Frequency range 10...2300 MHz
- ▀ Up to two switch units with 16 ports and up to four switch units with 8 ports can be integrated within the compact 1 RU chassis
- ▀ High isolation
- ▀ Flat frequency response
- ▀ Low ripple

## Technical Data

### DEV 1228, DEV 1236 Bidirectional 1:n Switches

#### RF Specifications

Frequency range	10...2300 MHz															
Number of switch units	1...2	(DEV 1236),														
	1...4	(DEV 1228)														
Number of ports (n) per switch unit	8	(DEV 1228),														
	16	(DEV 1236)														
Ports DC blocked	yes															
Impedance, connectors	75 Ohm, Precision F (f)															
Input damage level	138 dB $\mu$ V															
Return loss	>11 dB	(>10 MHz)														
	>14 dB	(>270 MHz)														
Insertion loss (typically)	<table border="1"> <thead> <tr> <th>DEV 1228</th> <th>DEV 1236</th> </tr> </thead> <tbody> <tr> <td>2.5 dB</td> <td>4.0 dB</td> </tr> <tr> <td>3.5 dB</td> <td>5.0 dB</td> </tr> <tr> <td>4.0 dB</td> <td>5.5 dB</td> </tr> <tr> <td>4.5 dB</td> <td>6.0 dB</td> </tr> <tr> <td>5.5 dB</td> <td>7.5 dB</td> </tr> <tr> <td>6.5 dB</td> <td>8.5 dB</td> </tr> </tbody> </table>		DEV 1228	DEV 1236	2.5 dB	4.0 dB	3.5 dB	5.0 dB	4.0 dB	5.5 dB	4.5 dB	6.0 dB	5.5 dB	7.5 dB	6.5 dB	8.5 dB
DEV 1228	DEV 1236															
2.5 dB	4.0 dB															
3.5 dB	5.0 dB															
4.0 dB	5.5 dB															
4.5 dB	6.0 dB															
5.5 dB	7.5 dB															
6.5 dB	8.5 dB															
		(@ 10 MHz),														
		(@ 500 MHz),														
		(@ 900 MHz),														
		(@ 1300 MHz),														
		(@ 2000 MHz),														
		(@ 2300 MHz)														
Frequency response	$\pm$ 2.0 dB	(250 ... 2300 MHz)														
	$\pm$ 0.2 dB	(within any 36 MHz interval)														
Isolation	>45 dB															

#### Remote Communication

Interface (connector)	Ethernet (RJ-45)
Remote control & surveillance	<ul style="list-style-type: none"> <li>• via Web Interface,</li> <li>• via SNMP</li> </ul>

#### External Power Supply

Power supply	100...240 V AC
Power consumption	<10 VA

#### General Specifications

Housing	19" (483 mm), 1 RU (44 mm), 210 mm depth
Weight	~2.7 kg + 0.3 kg power supply
Environmental conditions	ETS 300019 Part 1-3 Class 3.1

## Order Information

DEV 1228	1:8	Bidirectional Switch, 10...2300 MHz, 75 Ohm F(f)
Option 35		Additional 1:8 Switch Unit (this option can be ordered up to three times)
DEV 1236	1:16	Bidirectional Switch, 10...2300 MHz, 75 Ohm F(f)
Option 36		Second 1:16 Switch Unit

## Contact

DEV Systemtechnik GmbH & Co. KG  
 Grüner Weg 4A  
 D-61169 Friedberg, Germany  
 Phone: +49 (0) 6031 18999-0  
 Fax: +49 (0) 6031 18999-15  
 info@dev-systemtechnik.com  
 www.dev-systemtechnik.com

DEV America LP  
 info@dev-america.com  
 www.dev-america.com

Rev. 10-JAN-2012