

DEV 1993

L-Band N+1 Redundancy Switch

General Description:

The **DEV 1993** is used for automatic N+1 antenna redundancy and or N+1 RF redundancy. Up to 16 fixed antennas can be grouped and backed up with one motorized antenna. The **DEV 1993** provides LNB power and latching switches to maintain connections during a power failure. The switch automatically routes to the backup when the primary signal falls below a user defined threshold. The backup antenna is aligned to the primary satellite from the stored coordinates.

Features & Benefits:

- Save up to 99 satellite positions
- Automatic switching via RF sensing
- Dual band redundancy
- Automatic antenna redundancy system
- Power supply redundancy and power line redundancy
- DEV web interface
- SNMP support

Specifications:*	DEV 1993/50/m*n+1	DEV 1993/75/m*n+1
Capacity:		
Redundancy Units (m):	1, 2, or 4	
Main Channels (n):	4, 6, 8, 10, 12, 14, or 16	
RF Specifications:		
Operating Frequency:	DC, 950-2150 MHz	DC, 700-2300 MHz
RF Connectors:	SMA 50 Ω	F-Type
Return Loss:	>14 dB (main path) >12 dB (redundancy path)	
Isolation between Input Ports:	>60 dB	
Insertion Loss:		
Main Path:	<2.0 dB	<2.5 dB
Redundancy Path (for n = 4):	<5.0 dB	<6.0 dB
Redundancy Path (for n > 4):	<6.0 dB	<7.0 dB
Group Delay Distortion:	<7 ns	
Relay Type:	Latching	
Switching Power:	<30 dBm	
Switching Cycles:	>10E6	
LNB Power & Current Monitoring:		
LNB Power:	15 V DC, Max. 500 mA (per redundancy module)	
Adjustable Level Setting:		
Upper Alarm Level:	Max. 500 mA (factory setting: 350 mA)	
Lower Alarm Level:	Min. 0 mA (factory setting: 150 mA)	
RF Sensing:		
Adjustable Threshold Level:	0 dBm > Threshold Level > -50 dBm (factory setting: -30 dBm)	
Threshold Level Accuracy:	±3 dB	
Threshold Repeatability:	<0.5 dB	
Remote Communication:		
Interface (Connector):	Ethernet (RJ-45)	
	Serial Interface RS 232 (Sub-D-9 (f))	
Remote Control & Surveillance:	Via Web Interface (Ethernet)	
(Interface):	Via SNMP (Ethernet)	
Redundant Power Supply:		
Supply Voltage:	100 to 240 V AC Supplied by Two Different Circuits	
Power Consumption:	<100...200 VA (configuration dependent)	
Size:	3 RU, 6 RU or 9 RU	
Weight:	17 -25 lbs (configuration dependent)	
Environmental Conditions:	ETS 300019 Part 1-3 Class 3.1	

*Specifications may vary with connector type. See individual specification sheet for specific performance data.