# Subsystems & Accessories

# Model 8501 High Power Programmable Switch

100 Watt Hot Switching Capability



#### **Description**

Aeroflex / Weinschel's 8501 Series provides front-panel and computer control for up to two channels of high power RF switching (Figure 1), where RF signals are routed through either the front or rear mounted switch port connectors labeled 1, C, 2.

Special configurations designed to specific customer requirements may contain other coaxial devices such as power combiners, directional couplers, and filters to create single or multi-channel subsystems. The 8501 can also contain and control a separate programmable attenuator channel.

# IEEE-488

EINSCHEI



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#### **Features**

- // Provides a flexible, easy to program, low cost solution for your bench test/calibration setups and subsystem applications.
- // Single or Dual Switch Configurations
- // DC to 13.0 GHz Operation.
- // Power Hot switching up to 100 Watts average
- // Designed to interface with industry standard communication interfaces:
  - GPIB/IEEE-488 (HS-488 ready)
  - RS-232, RS-422
- // Rack Configurable: Using a Rack Mounting Kit allows the Model 8501 to be easily mounted into any rack or cabinet that is designed per EIA RS-310 or MIL-STD-189.

#### MODEL NUMBER DESCRIPTION:

#### Example:



Basic Number of Model Switches Number

 
 Number of
 Connector Location

 Switches
 F = Front, R = Rear (Type N, Female Only!)





For additional information on the Model 8501, visit our website @ www.aeroflex.com/AW/8501.htm



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#### **Specifications**

SPECIFICATION	DESCRIPTION					
Input Power Requirements	AC	100 to 240 Vac, 50/60 Hz, 50 Watts				
Environmental	Operating Temperature Storage Temperature: Humidity: Altitude:	0 to +50°C 67° to +167 °F (-55° to +75°C) 96% 40,000' (12,192M)				
IEEE-488 Bus	Connector: Protocols: Indicators:	24-pin per IEEE-488.1 per IEEE-488.2 Remote (RMT), Listen (LSN), Talk (TLK), SRQ (SRQ)				
RS-232 Bus	Connector: Signals: Baud Rates: Data Bits: Handshaking: Parity: Indicators:	9-pin male D TXD, RXD, RTS, CTS, DTR, GND 2400, 9600, 19200, and 38400 8 None, RTS/CTS, XON/XOFF None, Odd, Even Tx (Transmit) and Rx (Receive)				
RS-422 BUS <sup>(3)</sup>	Connector: Signals:	9-pin male D TXD+, TDX-, RXD+, RTX-, RTS+, RTS-, CTS+, CTS-, and				
signal GND	Baud Rates: Data Bits: Handshaking: Parity: Indicators:	2400, 9600, 19200, and 38400 8 None, RTS/CTS, XON/XOFF None, Odd, Even Tx (Transmit) and Rx (Receive)				
RF Characteristics	Port Connectors:	Type N, Fe Frequency Impedance	emale Range: e: <u>DC to 3</u>	$dc - 13 \text{ GHz}  50 \Omega  3 to 5 5 to 11 11 to 13  4 45 4 70 4 70 170$		
	SWR (maximum): Insertion Loss (dB maximum): Isolation (dB maximum): RF Average Power Handling (CW): Hot Switch Cycling:		1.25 0.25 70	1.45 0.30 60	1.70 0.50 50	1.70 0.65 50
			100 W to 3 GHz 50 W to 13 GHz 100K @ 100 Watts CW @ 2 GHz			

1. GPIB/IEEE-488 model allows user-selectable addresses

RS-232 can be used with standard PC serial port for short and medium distances (up to approximately 50 ft).

3. RS-422, designed for very long distance communications (4000 ft) and & optimized as a single node protocol, typically with one device connected to a single port.

### **Physical Dimensions**



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