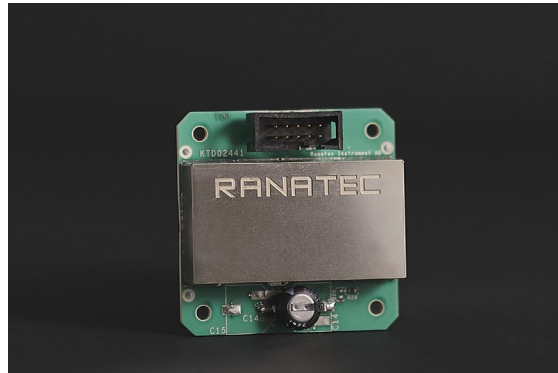


# RI 2441

## SWITCH MODULE

Solid State, SP4T,  
latching, terminated



### OVERVIEW

The RI 2441 is a solid state switch module with 1 pole and 4 throws. It is very well suited for high volume testing where long lifetime is required, without sacrificing RF performance. RI 2441 offers very good linearity, power handling and speed.

### APPLICATION

The RI 2441 Solid state switch module is designed for applications such as

- Production testing of mobile handsets
- Production testing of mobile basestations
- Built-In-Test (BITE) applications
- MIMO applications

### CONTROL INTERFACE

RI 2441, IDC10	Function
PIN 1	VCC*
PIN 2	Port 1**
PIN 3	Port 2**
PIN 4	Port 3**
PIN 5	Port 4**
PIN 6	NC
PIN 7	NC
PIN 8	NC
PIN 9	NC
PIN 10	GND

\* 5-45 VDC

\*\* Active low



### SPECIFICATIONS

Switch mode	SP4T latching, terminated
Switching time	< 100 $\mu$ s
Supply voltage	5-45 VDC
Supply current	< 1 mA
Operating frequency	DC - 6 GHz
Impedance	50 Ohm
Max DC at RF inputs	0 VDC
VSWR (max)	1.4:1 @ 0.01-0.698 GHz 1.3:1 @ 0.698-3 GHz 1.4:1 @ 3-6 GHz
Insertion loss (max)	1.6 dB @ 0.01-0.698 GHz 1.9 dB @ 0.698-3 GHz 2.2 dB @ 3-6 GHz
Isolation RFC-RFx (min)	55 dB @ 0.01-0.698 GHz 40 dB @ 0.698-3 GHz 35 dB @ 3-6 GHz
Isolation RFx-RFy (min)	55 dB @ 0.01-0.698 GHz 40 dB @ 0.698-3 GHz 30 dB @ 3-6 GHz
Input power thru path (max)	30 dBm @ 0.01-6 GHz
Input power hot switching & into termination (max)	20 dBm @ 0.01-6 GHz
Input IP3 (typ)	63 dBm @ 0.01-6 GHz
Actuating current	< 50 $\mu$ A (active low, input pulled up to 3 VDC)
Operating temp	0 °C to +50 °C
Storage temp	-20 °C to +70 °C
Relative humidity	95 % at +40 °C
Dimensions	50 x 50 x 30 mm
Weight	25 g
Connectors	SMA (f)

### ORDERING

RI 2441	SP4T solid state switch module
RI 2441-02	Optional 90° mounting bracket
RI 2441-03	Optional cable
RI 2441-04	Protective cover