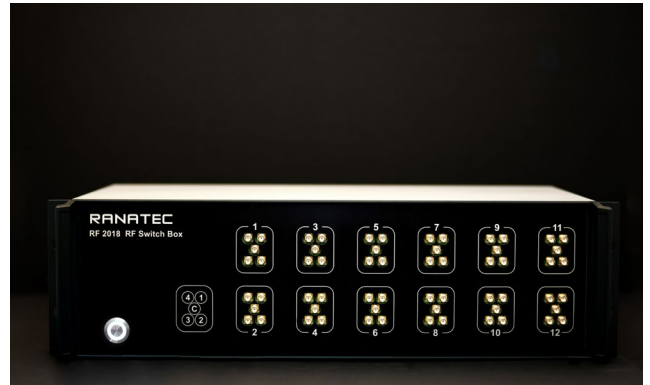


RF2018B

RF SWITCH BOX

Solid State, DC-6 GHz



OVERVIEW

The Ranatec RF2018B is an RF Switch system with 12 solid state switch modules, each with 1 pole and 4 throws. It is well suited for high volume testing, where long lifetime is required, without sacrificing RF performance. RF2018B offers very good linearity, power handling and speed.

APPLICATION

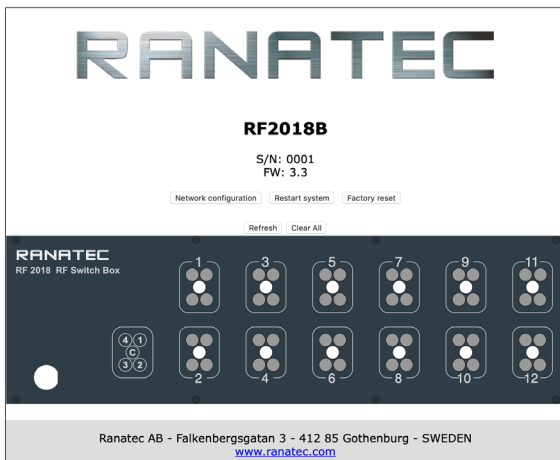
RF2018B is designed for applications such as:

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

CONTROL INTERFACES

- Web-interface, for manual operations
- Textual (SCPI-like) API

All switches are controlled remotely via web-interface or API. It can be controlled from any computer in the network via TCP/IP sockets or via its internal web server. The communication protocol is very simple and independent from operating system, programming language etc.



Web-interface

FEATURES

- Switch mode: SP4T latching, terminated
- DC - 6 GHz RF frequency range
- Insertion loss < 1.9 dB up to 3 GHz
- 63 dBm IP3
- + 30 dBm maximum input power
- Flexible supply voltage: 5-45 VDC
- < 100 μ s switching time
- High repeatability
- Ultra-long lifetime

SPECIFICATIONS

Switch mode	SP4T latching, terminated
Switching time	< 100 μ s
Supply voltage	5-45 VDC
Supply current	< 1 mA
Actuating current	< 50 μ A (active low, input pulled up to 3 VDC)
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)	1.6dB @ 0.01-0.698 GHz 1.9dB @ 0.698-3 GHz 2.2dB @ 3-6 GHz
Isolation RFC-RFx (min)	55dB @ 0.01-0.698 GHz 40dB @ 0.698-3 GHz 35dB @ 3-6 GHz
Isolation RFx-RFy (min)	55dB @ 0.01-0.698 GHz 40dB @ 0.698-3 GHz 30dB @ 3-6 GHz
Input power thru path (max)	30dBm @ 0.01-6 GHz
Input power hot switching & into termination (max)	20dBm @ 0.01-6 GHz
Input IP3 (typ)	63dBm @ 0.01-6 GHz
Operating temperature	0 to +50°C
Storage temperature	-20 to +70°C
Relative humidity	95% at +40°C
Connectors	SMA(f)

ORDERING

RF2018B

RF Switch Box