

RF2018B
RF SWITCH BOX

Solid State, 0.01-6 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.

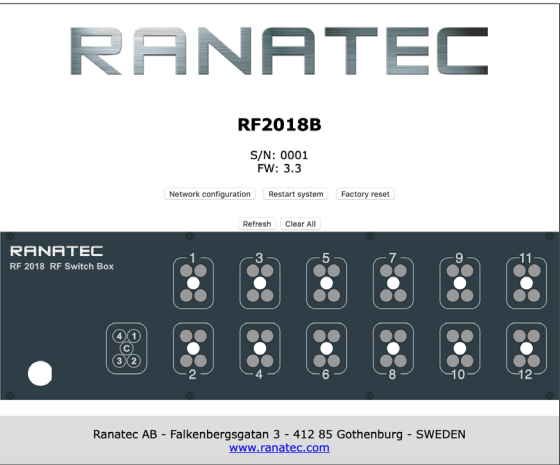
APPLICATION

- 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

SPECIFICATIONS

Switch mode	SP4T latching, terminated
Supply voltage	5-45 VDC
Supply current	< 1 mA
Actuating current	< 50 µA (active low, input pulled up to 3 VDC)
Switching time (max)	< 100 µs
Operating frequency	0.01 – 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
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
Insertion loss (max)	1.6 dB @ 0.1-0.698 GHz 1.9 dB @ 0.698-3 GHz 2.2 dB @ 3-6 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

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