

RF 2020B

RF Switch Box

3 x SP4T

2 x SPDT

DC – 18 GHz



OVERVIEW

The Ranatec RF2020B is a high performance RF Switch box with five switches, three SP4T DC-6 GHz and two SPDT DC-18 GHz.

APPLICATION

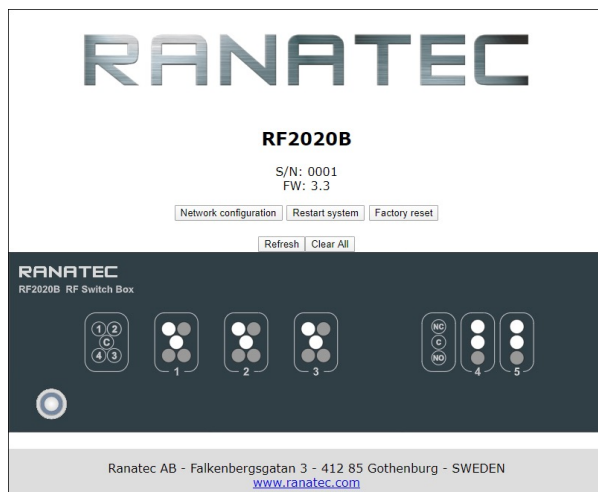
RF2020B is designed for applications such as:

- Production testing of mobile handsets
- Production testing of mobile basestations
- 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

- DC – 18GHz RF frequency range
- Insertion loss <0.35 dB up to 18GHz
- 50 dBm maximum input power
- Mechanical switches with high power and linearity

ELECTRICAL INTERFACES

Switch mode	Failsafe (SP4T) Normally open (SPDT)
Switching time	< 10 ms
Operating frequency	DC-6GHz (SP4T) DC-18GHz (SPDT)
Impedance	50 Ohm
Max DC at RF inputs	0 VDC
VSWR (max)	1.2:1 @ DC-3GHz (SP4T) 1.3:1 @ 3-6GHz (SP4T) 1.1:1 @ DC-3GHz (SPDT) 1.2:1 @ 3-12.4GHz (SPDT) 1.4:1 @ 12.4-18GHz (SPDT)
Insertion loss (max)	0.15dB @ DC-3GHz (SPDT) 0.20dB @ 3-8GHz (SPDT) 0.25dB @ 8-12.4GHz (SPDT) 0.35dB @ 12.4-18GHz (SPDT) 0.20dB @ DC-3GHz (SP4T) 0.30dB @ 3-6GHz (SP4T) 80dB @ DC-3GHz (SP4T) 70dB @ 3-6GHz (SP4T) 80dB @ DC-3GHz (SP4T) 75dB @ 3-8GHz (SPDT) 65dB @ 8-12.4GHz (SPDT) 60dB @ 8-18GHz (SPDT)
Isolation (min)	52dBm @ DC-6GHz (SP4T) 50dBm @ DC-18GHz (SPDT)
Input power thru path (max)	19", 3 HU
Size	SMA (F)
RF input/output connector	0 to 50°C
Operating temperature	-20 to 70°C
Storage temperature	95% at +40°C
Relative humidity	

ORDERING

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