

RF2000A Switch Box

Flexible test system automation platform in-a-box

Features:

- Modular configuration (mainframe + plugin modules)
- Plug-and-play system without need for SW upgrades
- Extensive range of standard switch modules ranging from DC to 50 GHz
- Extensive range of other modules such as: Voltage and Digitally Controlled Attenuators, Amplifiers, Mixers, etc are available
- 64 control ports as standard (128 as option)
- LAN to GPIB converter module available
- Custom modules available upon request (can be ANY coaxial active or passive components)
- Remote controlled by LAN, GPIB or RS-232
- Display and keyboard for local operation
- Switch counters enables preventive maintenance
- Cost effective solution

Overview

The Ranatec RF2000A is a flexible test system automation platform that helps you to integrate your complete test system into a single box. No more cables and discrete parts on your desktop!

Even though it is switch-oriented, it is well suited for integration of all other coaxial/waveguide parts of a test system.

Due to its backplane-based architecture, the user can easily add/remove modules whenever needed without need for software upgrade.

Plugin modules can be mounted both on the front side or on the rear side.

Control interfaces

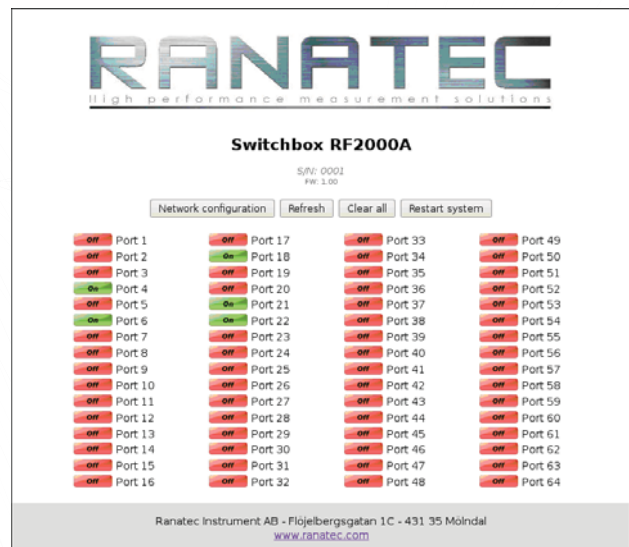
All switches can be controlled locally or remotely. During installation, it can be helpful to control them via the local keyboard and display. The display is always updated with the actual status, which can be useful during an ongoing automated verification procedure. RF2000A is designed to be the central communication hub of your test system. When connected to a LAN network, the user can control both internal modules and external instruments via its GPIB Master interface (optional). It can be controlled from any computer in the network via TCP/IP sockets or via its internal web server.

It can also be remotely controlled via GPIB or RS-232.

The communication protocol is very simple and independant from operating system, programming language etc.



Ranatec RF2000A Switch Box fits your test system in-a-box - no matter size and complexity.



Ranatec RF2000A can be controlled from any computer using a standard WEB browser.

Applications

The RF2000A is designed to be a cost effective way to automate test systems like:

- Volume production tests of mobiles, basestations, radio links, radars and other wireless devices
- Automated design verification tests
- Remote control of test systems for monitoring etc
- Radio network emulation in lab environment

RANATEC

High performance measurement solutions

Ordering

RF2000A	Switch Box mainframe in 19", 3HU box
Option 02001	128 control ports
Option 02002	Remote control via RS-232 over LAN
Option 02003	Remote control via TCP/IP sockets and WEB interface
Option 02005	LAN - GPIB Converter Module (Requires Option 02003)
Option 02006	19", 6HU
Option 02007	19", 9HU
Option 02040	SPDTx6 Module, DC, Banana socket
Option 02041	SP6Tx2 Module, 48VDC, 6x5A, Banana socket
Option 02050	SPDTx6 Module, DC-18 GHz, SMA (F)
Option 02052	SPDTx2 Module, DC-18 GHz, SMA (F)
Option 02060	SP6Tx2 Module, DC-18 GHz, SMA (F)
Option 02080	SP8Tx1 Module, DC-100 MHz, BNC (F)
Option 02081	SP8Tx1 Module, DC, Banana socket
Option 02092	Remote Display Module
Option 02100	Downconverter Module, 2-12 GHz, SMA (F)
Option 02110	Power Splitter Module, 2-18 GHz, SMA (F)
Option 02200	4xVariable Analog Attenuator Module, 8-18 GHz, SMA (F) (Requires Option 02003)
Option 02501	LO Module, 2.5-3.3 GHz, 10 MHz step, SMA (F)
Option 02750	SPDTx6 Module, DC-800 MHz, 75 Ω , BNC (F)
Option 02752	SPDTx2 Module, DC-800 MHz, 75 Ω , BNC (F)
Option 02780	SP8Tx1 Module, DC-400 MHz, 75 Ω , BNC (F)
Option 02850	SPDTx6 Module, DC-40 GHz, 2.4 mm (F)
Option 02852	SPDTx2 Module, DC-40 GHz, 2.4 mm (F)
Option 02950	SPDTx6 Module, DC-18 GHz, Terminated, SMA (F)
Option 02960	SP6Tx1 Module, DC-18 GHz, Terminated, SMA (F)
Option 02981	SP8Tx1 Module, DC-18 GHz, Terminated, SMA (F)
Option 02991	SP10Tx1 Module, DC-18 GHz, Terminated, SMA (F)

All modules have a nominal impedance of 50 Ω unless other is stated.