Keysight Technologies
Z2091C Smart Switch Matrices

Product Fact Sheet

Defining and implementing an RF and microwave switch solution can be a daunting task. What switch topology does the application require? What loss and VSWR performance will result in measurements you can trust? How quickly can you get the solution in your hands from design through integration? If each of these considerations were addressed in one seamless process that reduces delivery time, would you consider it?

Welcome to Keysight's Z2091C Smart Switch Matrices.

Easier, Better, Faster, More Cost Effective

- Easier to use with expanded functionality
- Faster design and delivery of custom switch matrices –concept to end-product
- Improved user interfaces
- Webpage control based on RF schematic
- Built-in diagnostic page when connected directly to the chassis
- More intuitive SCPI commands with backward compatibility
- Optional touch screen control
- Greater density, smaller components
- Modular approach to power supply and cooling
- Support for all RF components and connectors
- Custom front and rear panel based on specific requirements

KEYSIGHT TECHNOLOGIES

Control

New controller and firmware to provide enhanced capabilities compared to the L449x – PC1600

- Compatible with the existing 34945EXT modules to control switches
- Compatible SCPI command set
- Standard library of basic components with auto channel numbering and indicators
- Standard Interfaces – LAN, USB x 3, VGA
- Optional Interfaces – 34945EXT Control Out, GPIB

Three methods of control

- Web browser – interactive RF schematic, point and click on components to change state
- SCPI commands – L449x compatible SCPI commands
- Optional single touch front panel – customized view for key switch matrix control features

New control hardware, improved tools, new chassis options

- Replace large 34945EXT with smaller, modular solution
- Graphical user interface for chassis and switch control
- Enhanced webpage view, highlight paths, exposed higher level functionality
- Memory sanitization provided via a SCPI command to clear all instrument memory (excluding calibration parameters, I/O hardware addresses, boot parameters) and then cycle power to instrument – typically used to clear all memory before removing instrument from secure area

Physical

- Existing 2U, 4U, 5U, and 7U chassis
- Improved mechanical layout efficiencies, add 1U and 3U chassis
- Custom front and rear panel to meet design requirements
- Works with components in all frequency ranges

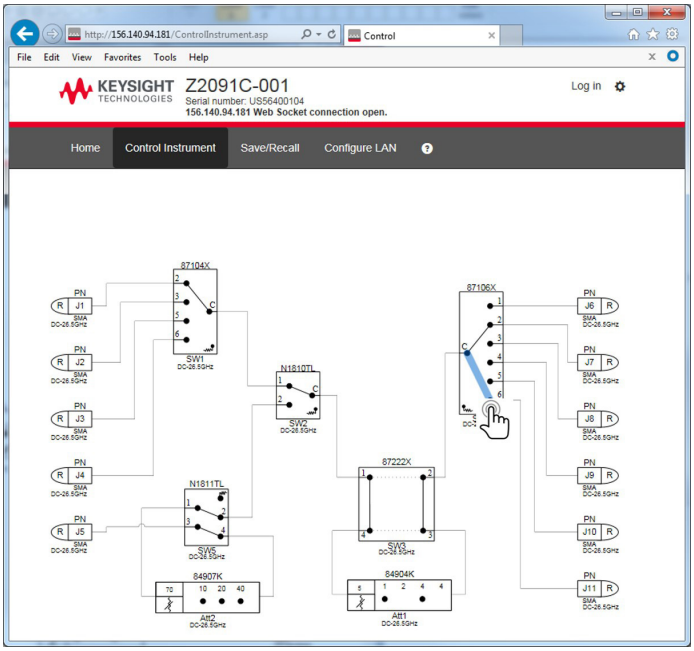

Figure 1. Interactive RF schematic - point and click on components to change state.

Power and Cooling

- Expandable power supply and cooling schemes
- 24 V standard with options for additional voltages (5 V, 12 V, 15 V)
- Fan carrier board has connection for three +12 V fans at 2 W each
- Standard AC In
- Ground stud

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