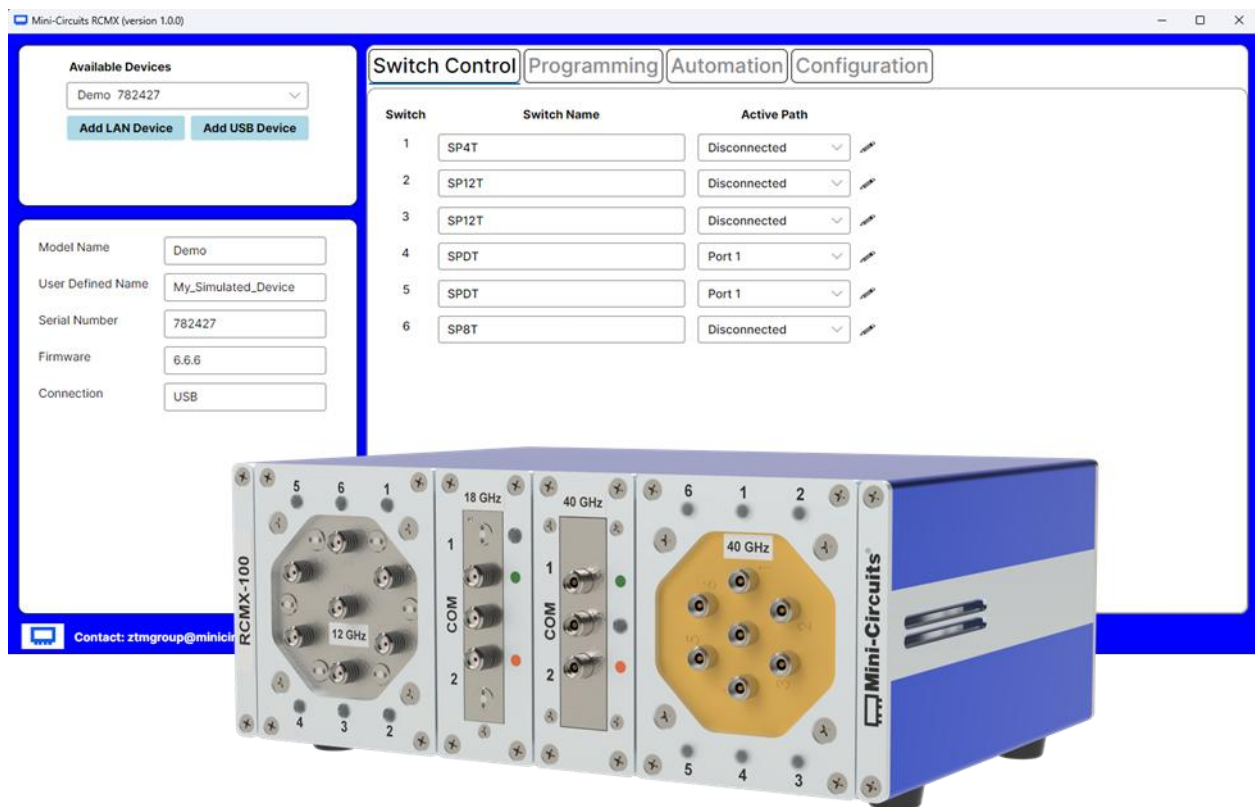


APPLICATION NOTE

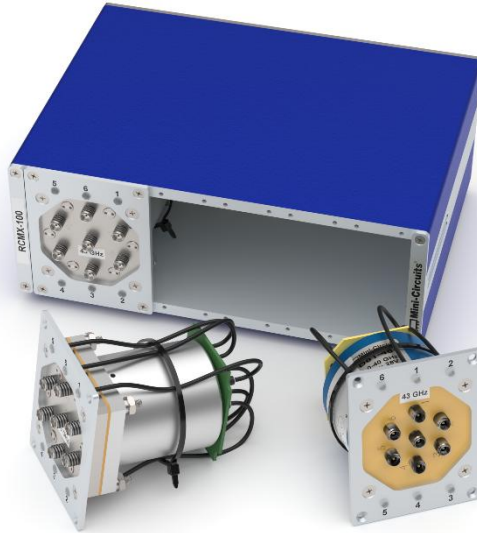
RCMX Series vs RC Series Differences



Modularity / Fixed Frame

The RCMX series were designed with modularity in mind. This gives our customers the flexibility to mix and match switch types within a single unit and controller. It also allows for easy installation of additional switches and makes repairs simple if a switch were to become damaged, greatly shortening your setup's downtime. Simply purchase a module and we'll provide you with instructions to add/replace the switch yourself. There's only a few screws and a single harness involved.

Due to the increased width, the RCMX series is also capable of up to 6x SPDTs, 3x SP4Ts, or 3x SP6Ts.



The RC series due to its normally more compact nature has a limit of up to 4x SPDTs, 2x SP4Ts, or 2x SP6Ts. This smaller unit also forces it to use a fixed frame which does not allow for any kind of modularity. Any hardware issues would require it to be returned to the factory for evaluation and repairs.



There is always an exception to the rule. We have a special non-modular RCMX design that allows for the same switch count as the immensely popular RC-8SPDT models, except the RCMX-8SPDT is in a smaller overall chassis. While the RCMX-8SPDT loses its modularity, it saves you precious real estate on your benchtop setups.



8.13" (W) x 3.13" (H) x 6.00" (D)



12.00" (W) x 2.25" (H) x 4.50" (D)

Programming Differences

The RC- Series and RCMX Series are both benchtop models that have similar methods of control. They both make use of included .NET DLLs and are controlled by a series of SCPI commands. For the software and full list of SCPI commands please refer to the respective model's software page on our website:

RC Series Hyperlink:

[Mechanical Switch Boxes - Software & Documentation Resources](#)

RCMX Series Hyperlink:

[RCMX Series Mod Test Sys Downloads & Documentation | Mini-Circuits](#)

Switch SCPI Command Differences

The syntax for these commands is similar but have slight differences. Refer to the table below for the differences depending on switch type. One of the major differences you'll notice is that the RC- Series Switches addressing are letters while the RCMX Series Switches are numerals.

Switch Type	RC- Series Command	RCMX Series Command
SPDT Switches	SET[address]=[state] Ex.: Setting switch A to port 2 SETA=2	:SPDT:[address]:STATE:[state] Ex.: Setting switch 1 to port 2 :SPDT:1:STATE:2
DPDT Switches	SET[address]=[state] Ex.: Setting switch A to state 2 SETA=2	:MTS:[address]:STATE:[state] Ex.: Setting switch 1 to state 2 :MTS:1:STATE:2
SP4T Switches	SP4T[address]:STATE:[state] Ex.: Setting switch B to state 2 SP4TB:STATE:2	:SP4T:[address]:STATE:[state] Ex.: Setting switch 2 to state 4 :SP4T:3:STATE:4
SP6T Switches	SP6T[address]:STATE:[state] Ex.: Setting switch B to state 2 SP6TB:STATE:2	:SP6T:[address]:STATE:[state] Ex.: Setting switch 2 to state 6 :SP6T:2:STATE:6
SP8T Switches	N/A	:SP8T:[address]:STATE:[state] Ex.: Setting switch 3 to state 8 :SP8T:3:STATE:8