OCTOBOX® 1:2 quadSwitch

Dual-pole single throw quad RF switch helps build multi-purpose wireless testbeds with no need for manually moving RF cables for different tests

The 1:2 quadSwitch quad single pole doublet throw (SPDT) RF switch module. Conveniently mountable to the side of the OCTOBOX, the 1:2 quadSwitch module is used for automatically reconfiguring the OCTOBOX wireless personal testbed for a variety of test configurations. This module is completely isolated from the outside interference and optimized for use in OCTOBOX personal testbeds.



1:2 quadSwitch; model: OB-2WAY-SW

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Applications

- Wi-Fi (802.11a/b/g/p/n/ac/ax), Bluetooth and cellular (LTE, LTE-Advanced, including LAA and MulteFire)
- OCTOBOX personal testbeds automatic reconfiguration
- Test automation via REST API

Specifications

- Frequency range: 500 MHz to 6 GHz Connectors: SMA
- Insertion loss: 4 dB typ. At 6 GHz 1 dB compression: 30 dBm
- IP3: 55 dBm
- Completely isolated from outside interference Powered and controllable via PoE



The 1:2 quadSwitch is powered and controlled via its Ethernet PoE port and comes with a browser UI (see below) and REST API. You can find the API specifications at the following link:

https://support.spirent.com/SpirentCSC/SC_KnowledgeView?id=DOC12383

Each of the 4 SPDT switches are individually controllable via radio button selection in the browser or in a script via the API. The browser controls are shown below.



Click the common (green shaded) A button to switch all 4 switches to the A ports.

Ospirent Welcome to the OCTOBOX quadSwitch! IP Address: 169.254.21.7 Subnet: 255.255.0.0 Gateway: 0.0.0.0 MAC: 2C:27:9E:90:04:8F Name: 5W70721-07 Serial: 5W70721-07 Firmware: 3.2.18-mh11 ● 1A ● 2A ● 3A • 4A • A OB O 1B O 2B O 3B O 48 IP Settings: IPv4 Address 169.254.21.7 Subnet Mask 255.255.0.0 Default Gateway 0.0.0.0 Update

Click individual switch controls to set the corresponding switches to A or B ports.

Click the common (green shaded) B button to switch all 4 switches to the B ports.

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Welcome to the OCTOBOX quadSwitch!

	O 1A	○ 2A	③ 3A	• 4A
в	• 1B	2B	O 3B	O 4B
		169.254.21.7		
Subnet Mask		255.255.0.0		
	Default			

Ospirent Welcome to the OCTOBOX quadSwitch! IP Address: 169.254.21.7 Subnet: 255.255.0.0 Gateway: 0.0.0.0 MAC: 2C:27:9E:90:04:BF Name: SW70721-07 Serial: SW70721-07 Firmware: 3.2.18-mh11 O A ○ 1A 02A () 3A 04A • B • 1B ● 2B ● 3B • 4B IP Settings: IPv4 Address 169,254,21,7 Subnet Mask 255.255.0.0 Default Gateway 0.0.0.0 Update

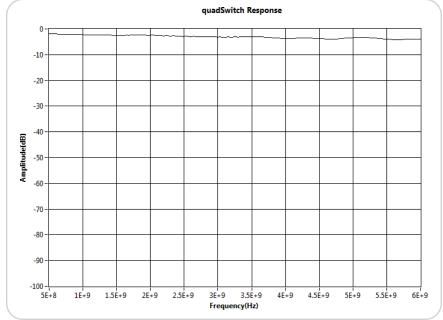
About Spirent

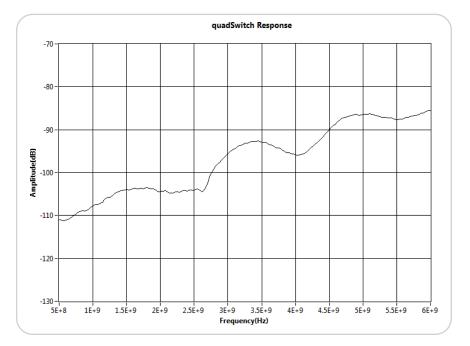
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For more information visit: www.spirent.com

Typical Response Curves

Representative performance plots of the quadSwitch insertion loss and isolation





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