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

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

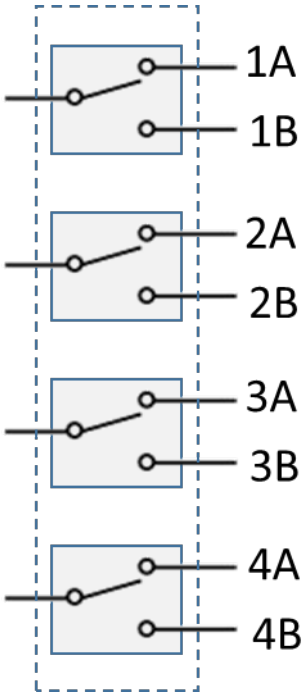
SPECIFICATIONS

- 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

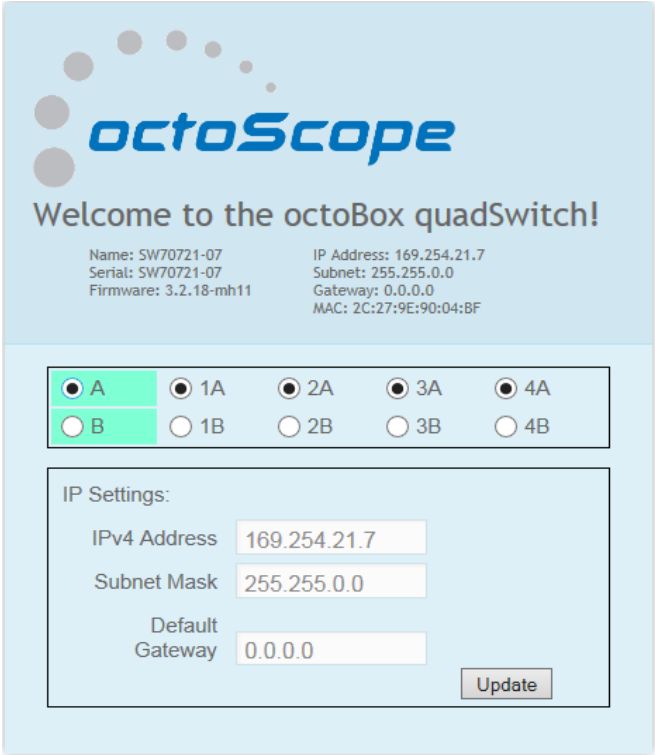
The 1:2 quadSwitch is powered and controlled via its Ethernet PoE port and comes with a browser UI (see below) and REST API. You can find the API specifications at the following link:

https://octoscope.atlassian.net/wiki/spaces/PUB/overview

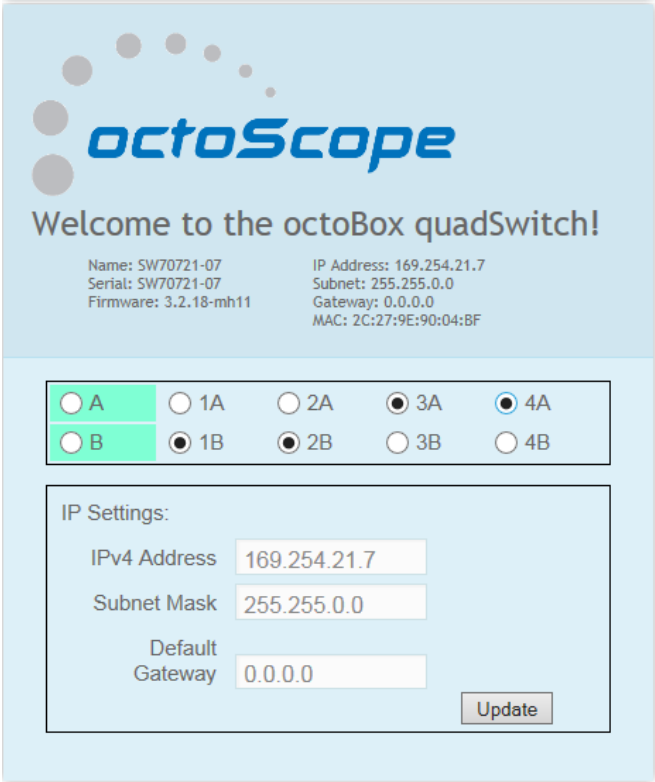
Each of the 4 SPDT switches are individually controllable via radio button selection in the browser or in a script via the API. The browser controls are shown below.



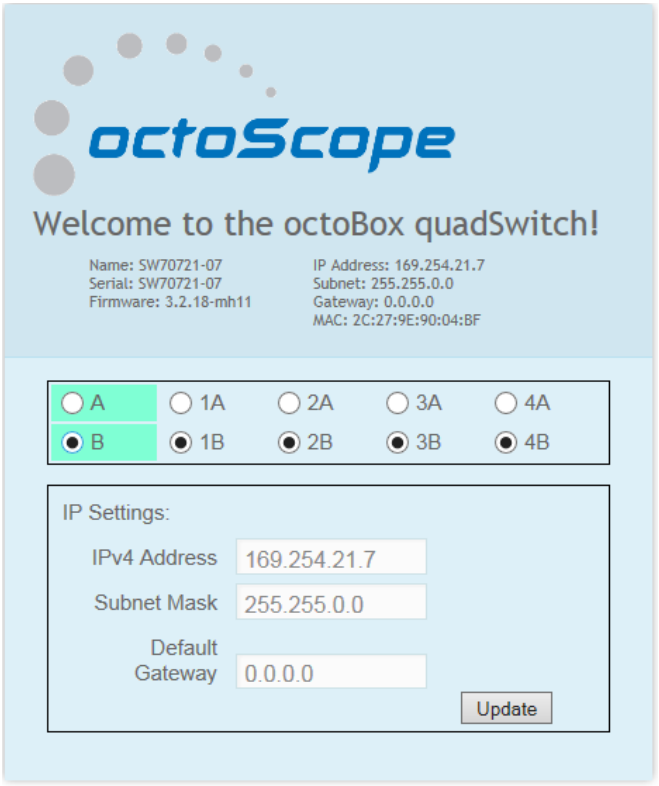
Click the common (green shaded) *A* button to switch all 4 switches to the A ports.



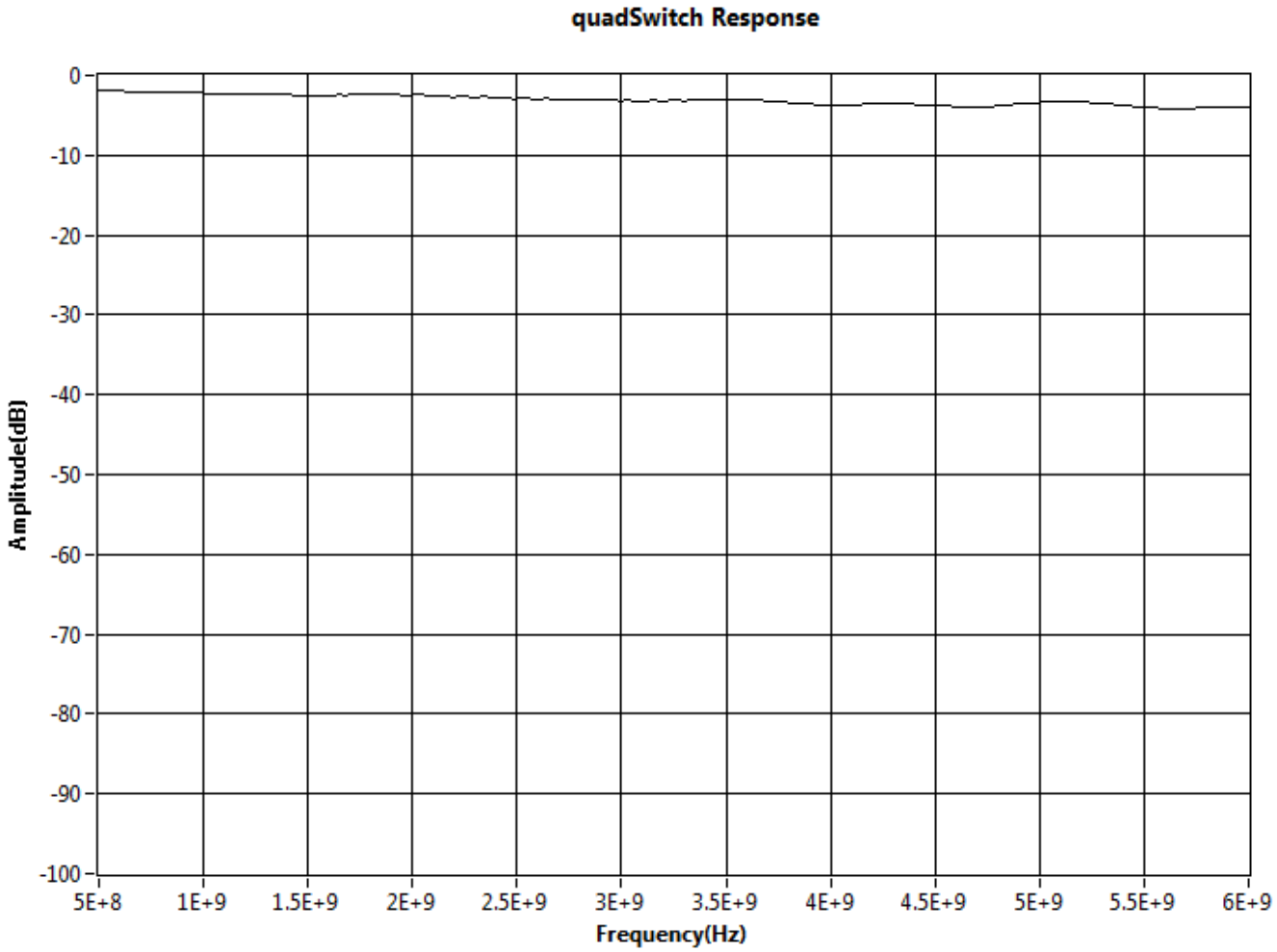
Click individual switch controls to set the corresponding switches to *A* or *B* ports.

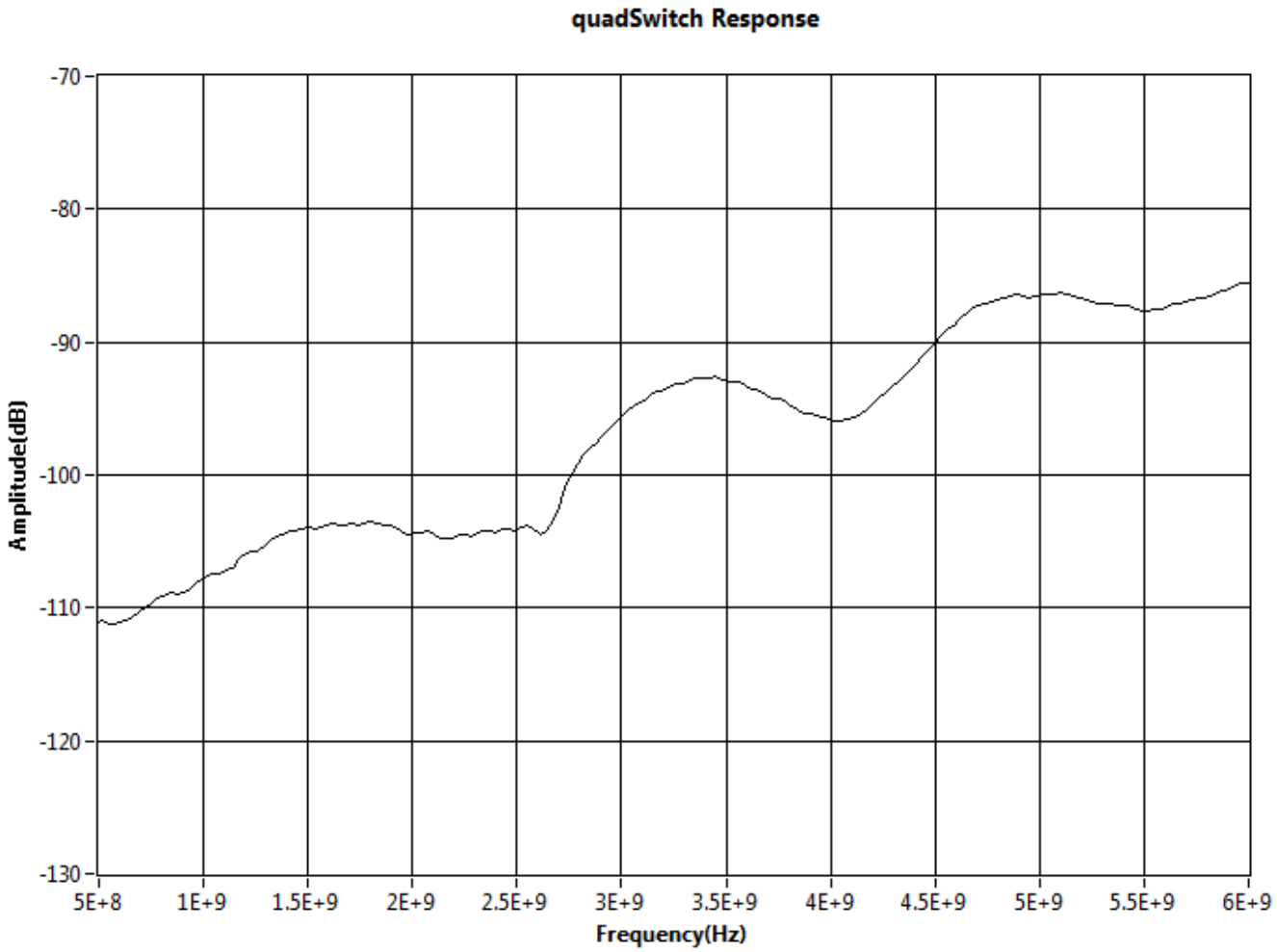


Click the common (green shaded) *B* button to switch all 4 switches to the B ports.



TYPICAL RESPONSE CURVES: Representative performance plots of the quadSwitch insertion loss and isolation





CONTACT

octoScope, Inc.
305 Foster Street
Littleton, MA 01460
Tel: +1.978.222.3114
sales@octoscope.com