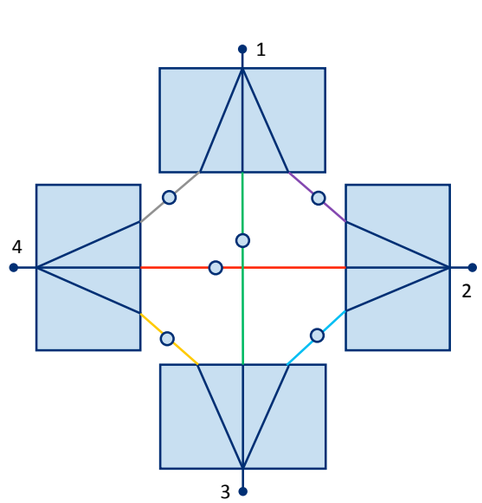
n-Port Mesh Networks

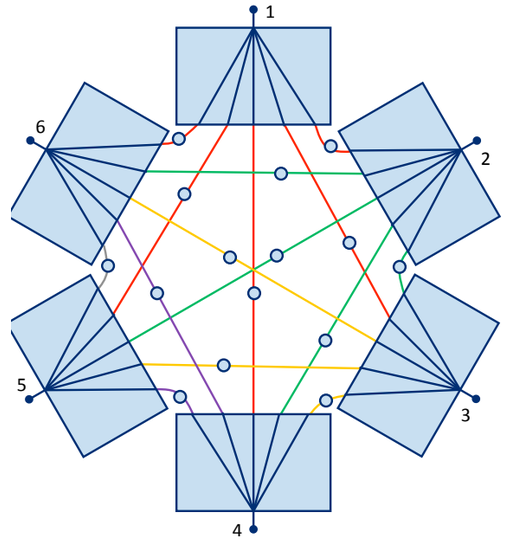
Multi-Port Networks for Interconnecting 3 to *n* Devices

Mesh networks allow simultaneous interconnection of 3 to *n* devices or test systems. Common applications include testing of Bluetooth and Zigbee devices, wireless handsets and Wi-Fi systems.

Mini-Circuits has developed a range of mesh networks with independently variable attenuation on every path. This concept allows simulation of a “real-world” mesh communication network in the confined space of a production environment. Path loss can be varied independently between any pair of devices, simulating the effects of distance and interference, without affecting any other paths.

Number of paths, operating frequency and path attenuation range (up to 120 dB) can be tailored to the specific test requirement.

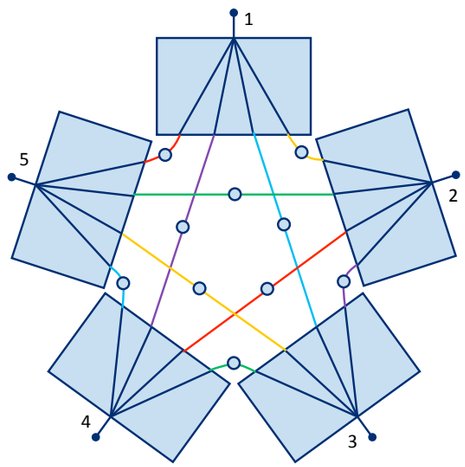




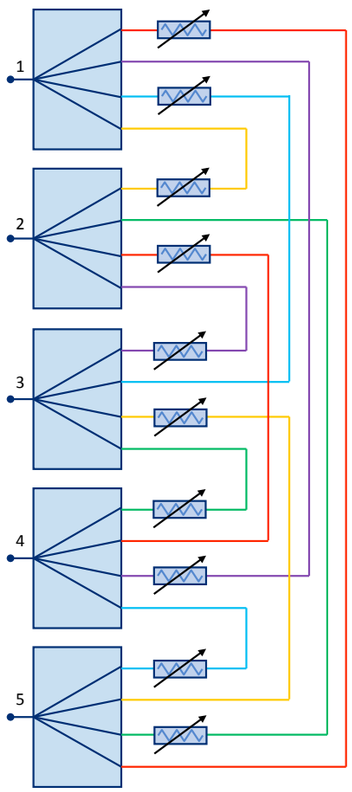
Common mesh network requirement, clockwise from top right: 4-port mesh; 6-port mesh; 9-port mesh

Even larger mesh network configurations available on request!

Schematic drawings for 5-port mesh network; conceptual diagram below and assembly diagram to the right.



= programmable attenuator



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