

VIAVI

8380 RPC

Return Path Combiner

Overview

The 8380 RPC™ Return Path Combiner is a 16 x 1 non-blocking RF matrix switch designed for use with the VIAVI 8310 RSA™ in the return path of CATV systems. The 8380 RPC has 16 input ports that can be combined into a single output.

There are two versions of the 8380 RPC available, a master and a slave. The master 8380 RPC is used to control each slave using an RS-485 connection. The output from each slave 8380 RPC connects to a corresponding input on the master unit. Slave 8380 RPCs have the ability to be upgraded to a master unit.

A complete 8380 RPC system consists of a master and 16 slaves allowing for 256 inputs to be combined into a single output. The output of the master may be used for a variety of tests.

Key Features

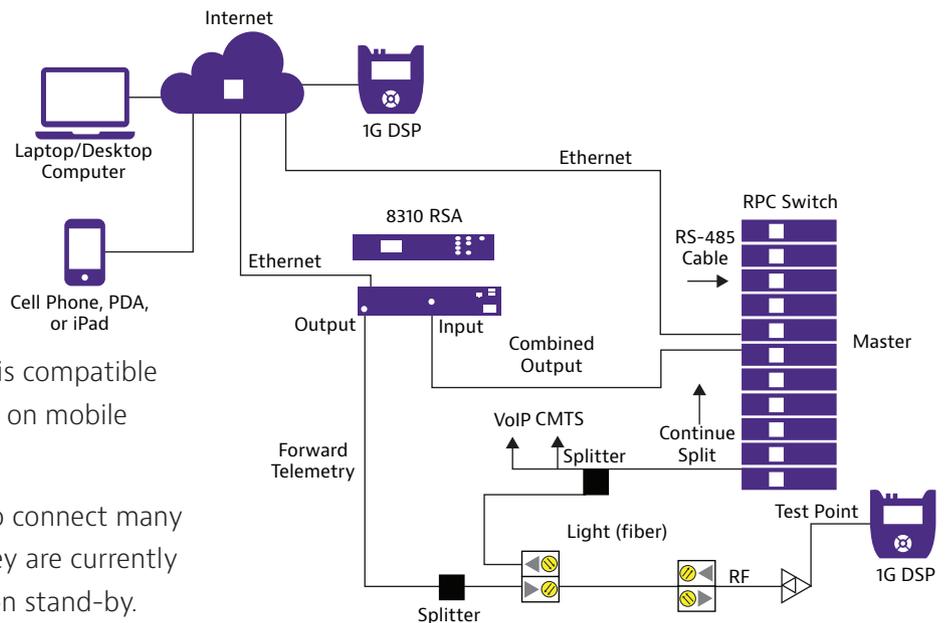
- 16 x 1 non-blocking RF Matrix Switch
- 16 ports per switch
- 17 switches total in master/slave configuration for 256 Ports Max
- ViewPoint Master Control of all RPC switches



Web Based Configuration

Whether you are a technician in the headend or the field, the master 8380 RPC can be controlled from anywhere that has an Internet connection. The 8380 RPC includes a built-in web based configuration that is compatible with any web browser including those on mobile devices and the DSP family of devices.

This versatility allows the technician to connect many ports, but only sweep on the ports they are currently testing, while the other ports remain on stand-by.



Specifications

Electrical	
Switch Configuration	16 x 1 Non-Blocking
Frequency Range	4 to 200 MHz
Insertion Loss	$\leq 0.0 \pm 0.3$ dB
Impedance	75 Ohms
Return Loss	≥ 15 dB
Termination	All Inactive Ports
Input	+30 dBmV Max (for 60 dB spurious free operation)
Max Active Ports	16 (total for master plus slaves)
Isolation	60 dB Min (any unselected port to common)
Noise Figure	18 dB
Control	RS-485 (Slave), Ethernet (Master) Initial setup and firmware upgrades via USB (Master and Slave)
Switching Speed	< 1 second
Power	15 VDC @ 1 Amp - External AC to DC Power Adapter
Mechanical	
Enclosure	19" 1 RU Rack
RF Connectors	F-Female (RG-6) Non-Replaceable
RS-485 Connectors	RJ-11 IN and OUT
RS-485 Address	Via Rear Panel DIP Switch
RS-485 Termination	Via Rear Panel DIP Switch
Ethernet	RJ-45 (Master Only)
USB	Type B Connector
Power	2.5 x 5.5 mm DC Input Jack
Front Panel Indicators	18 LEDs Input Active, Power, and Status

Includes the Following

- Rack-Mounted Return Path Combiner
- 90 to 240 VAC wall mount power supply with interchangeable connector
- 8380 RPC Setup software
- User's manual

Related Products

- 8310 RSA Return SpeedSweep Analyzer
P/N 2011375000

Ordering Information

- Rack-Mounted Return Path Combiner (Slave)
P/N 2011399000

Available Options

- Master Controller Hardware Option
P/N 2011400000



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