

- 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



### OVERVIEW

The 8380 RPC™ Return Path Combiner is a 16 x 1 non-blocking RF matrix switch designed for use with Trilithic's 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.

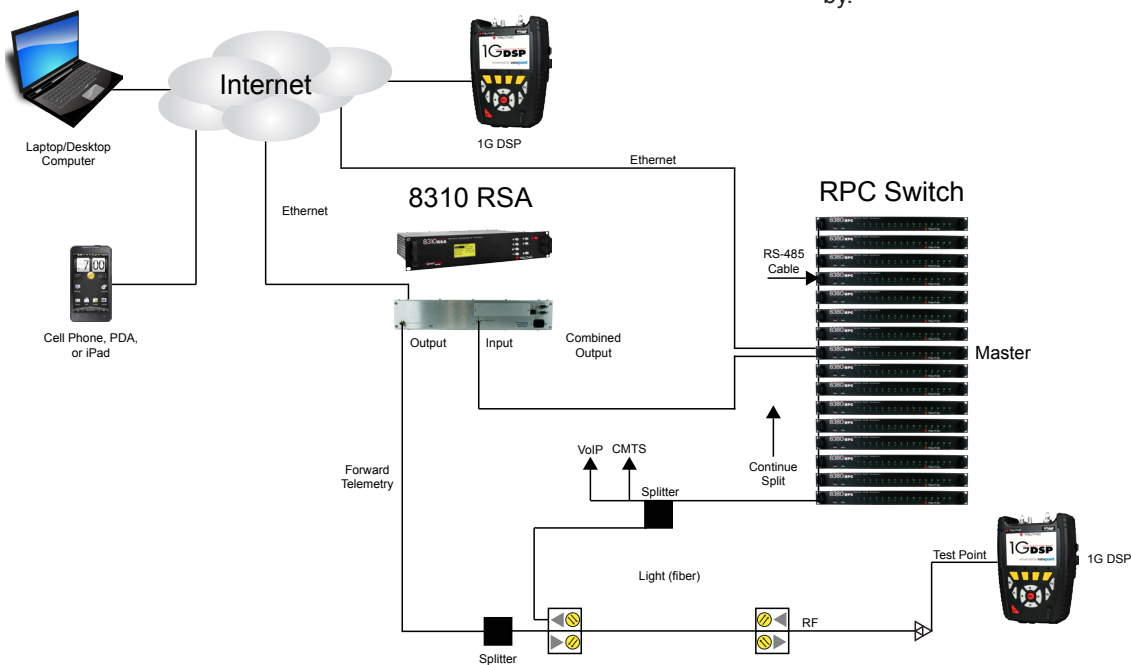
The output from each slave 8380 RPC connects to a corresponding input on the master unit. Slave 8380 RPCs have the ability to be upgraded to a master unit.

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.

### 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.



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## SPECIFICATIONS

### Electrical

<b>Switch Configuration</b>	16 x 1 Non-Blocking
<b>Frequency Range</b>	4 to 200 MHz
<b>Insertion Loss</b>	≤ 0.0 ± 0.3 dB
<b>Impedance</b>	75 Ohms
<b>Return Loss</b>	≥ 15 dB
<b>Termination</b>	All Inactive Ports
<b>Input</b>	+30 dBmV Max (for 60 dB spurious free operation)
<b>Max Active Ports</b>	16 (total for master plus slaves)
<b>Isolation</b>	60 dB Min (any unselected port to common)
<b>Noise Figure</b>	18 dB
<b>Control</b>	RS-485 (Slave), Ethernet (Master) Initial setup and firmware upgrades via USB (Master and Slave)
<b>Switching Speed</b>	< 1 second
<b>Power</b>	15 VDC @ 1 Amp - External AC to DC Power Adapter

### Mechanical

<b>Enclosure</b>	19" 1 RU Rack
<b>RF Connectors</b>	F-Female (RG-6) Non-Replaceable
<b>RS-485 Connectors</b>	RJ-11 IN and OUT
<b>RS-485 Address</b>	Via Rear Panel DIP Switch
<b>RS-485 Termination</b>	Via Rear Panel DIP Switch
<b>Ethernet</b>	RJ-45 (Master Only)
<b>USB</b>	Type B Connector
<b>Power</b>	2.5 x 5.5 mm DC Input Jack
<b>Front Panel Indicators</b>	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**