

Features & Benefits:

- Completely passive 2RU chassis
- Low signal reflections from input to output ports
- Allows for installation of (16) Return Path Inputs
- High levels of Isolation between inputs and outputs
- Eliminates external jumper cables
- Significantly reduces labor for setup & balancing
- Reliable components
- Repeatable technology enables site design consistency.
- Front Panel Mounted -20dB Test Ports

The new passive return combiner from CommDev, LLC Model **PRD-204**, is a compact 16 Node Passive Return Path Combiner and Splitter chassis designed for modern CATV headend and hub-site environments for RF management projects within the frequency range of 5-200MHz.

Housed in compact 2RU chassis, and manufactured with integrated circuitry, the entirely passive unit is arranged for installation in a standard 19" EIA rack.

The **PRD-204** model allows for the introduction of (16) return path RF inputs which are segmented into two groups of (8) each. Up to (16) RF inputs can be connected to the unit. Each input port is then split 3-ways for three separate "1:1" output ports, as the remaining signals are combined into four groupings of "4x1".

The -20dB Test ports are mounted on the front panel of the unit for technician friendly service of all input signals.

The unit is cost effective and allows for a consistent wiring scheme throughout all locations for simplified maintenance procedures.

The system allows site engineers to maintain site design consistency throughout all locations, minimize RF management costs per node, eliminate countless numbers of external jumpers, minimize rack space usage.

The 2RU chassis design also allows for other configurations which can provide other combining group configurations, including 2x1 and 8x1 groupings.

THREE YEAR PARTS AND LABOR WARRANTY INCLUDED

Please call or write to us today for any additional information. We also welcome your specific requirements for any custom designed products.

DOCSIS 3.x Compliant

Technical Specifications:

	<i>Parameter</i>	<i>Unit</i>	<i>Specification</i>
1	Frequency Band	MHz	5 - 204
2	Impedance	Ohm	75
3	Connectors Type		F-connector
4	Number of Inputs		16
5	Number of Outputs Groups: Split 1:1 Combined 4x1		16 4
6	Number of Outputs in Groups: Split 1:1 Combined 4x1		3 2
7	Insertion Loss: Input: Split Output 1:1 "A" Split Output 1:1 "B" Split Output 1:1 "C" Input - Combined Output 4x1	dB	16±0.25 * 26±0.25 * 26±0.25 * 26±0.25 *
8	Insertion Loss Flatness	dB	±0.25
9	Test Port	dB	20±0.25
10	Return Loss, all Ports, min	dB	20
11	Isolation: Between Inputs: 5 - 85 MHz 65 - 200 MHz Between 1:1 Outputs: 5 - 85 MHz 65 - 200 MHz Between Combined Outputs: 5 - 85 MHz 65 - 200 MHz	dB	40 35 40 38 40 35
12	Dimensions (WxHxD)	inch	19"x3.5"x5"
13	Weight	lb	5.9

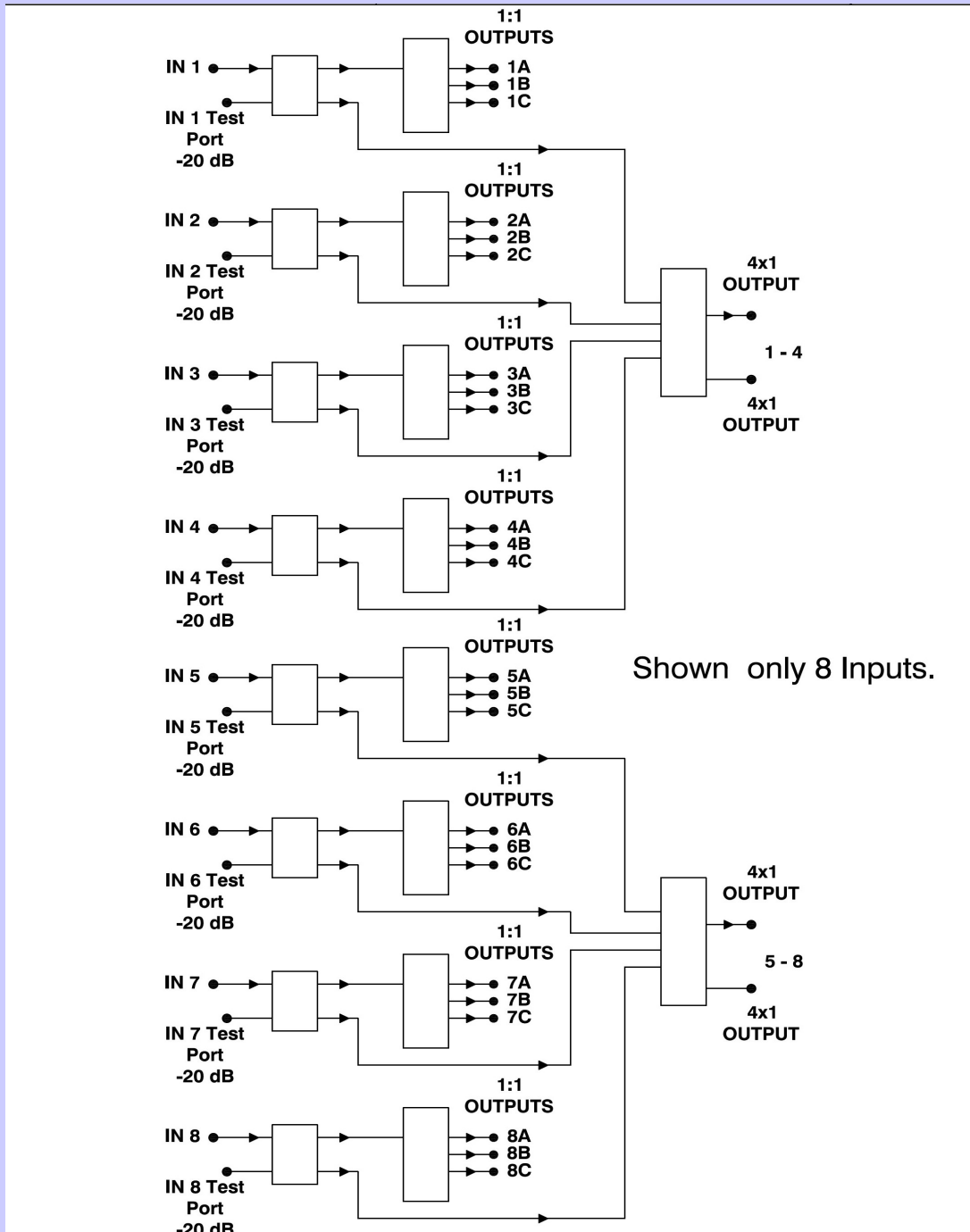
*) Customizable Insertion Loss per Customer Request

Customized Insertion Loss Range:

1:1 Output A 8 -26 dB

All Other Outputs 14-26 dB

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PDR-204 Block Diagram