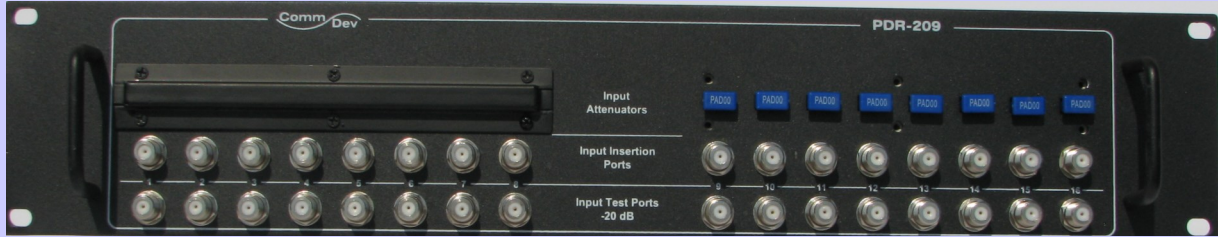


Rear Panel View



Front Panel View



Features & Benefits:

- Completely passive 2RU chassis
- Low signal reflections from input to output ports
- Allows for installation of (16) Return Path Inputs
- Optional additional Insertion Port for each Input
- 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

THREE YEAR PARTS AND LABOR WARRANTY INCLUDED

The new passive return combiner from CommDev, LLC Model **PRD-209**, 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-209** 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 groupings of "8x1", and "16x1".

Additional 16 Insertion Ports on front Panel available for device option **PDR-209.1** (shown at picture).

Compare **PDR-202** and **PDR-202.1** devices offered unit gives capability to adjust Outputs Signal Level for each Input by JXP Attenuators.

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.

Compact 2RU chassis design also allows for other configurations which can provide other combining group configurations, including 2x1 and 4x1 groupings.

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 Insertion Ports		16
6	Number of Output Groups: Split 1:1 Combined 8x1 Combined 16x1		16 2 1
7	Number of Outputs: Split 1:1 per each Input Combined 8x1 per Group Combined 16x1 per Group		3 2 2
8	Insertion Loss: Input: Split Output 1:1 "A" Split Output 1:1 "B" Split Output 1:1 "C" Input - Combined Output 8x1 Input - Combined Output 16x1	dB	16±0.25 * 26±0.25 * 26±0.25 * 26±0.5 * 26±0.5 *
9	Additional Loss from Insertion Port to any Output	dB	16±0.25 **
10	Insertion Loss Flatness	dB	±0.25
11	Test Port	dB	20±0.25
12	Return Loss, all Ports, min	dB	20
13	Isolation, min: Between Inputs: 5 - 204 MHz Between 1:1 Outputs: 5 - 204 MHz Between Combined Outputs: 5 - 204 MHz	dB	40 40 40
14	Dimensions (WxHxD)	inch	19"x3.5"x5"
15	Weight	lb	5.9

*) Customizable Insertion Loss per Customer Request

Customized Insertion Loss Range:

1:1 Output A 12 -26 dB

1:1 Outputs B&C 16-26 dB

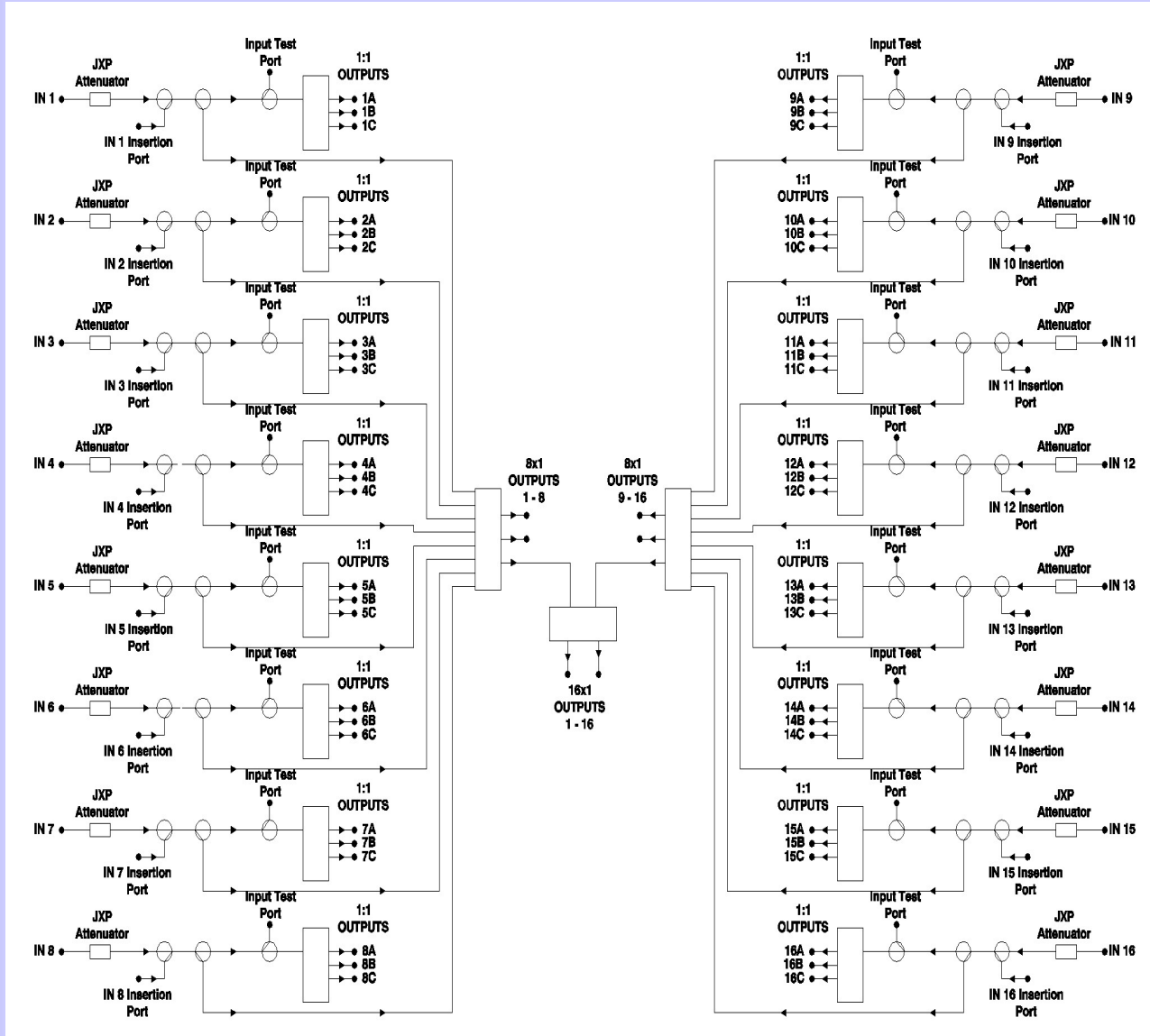
All Other Outputs 24-32 dB

**) Customized Insertion Loss Range from

Insertion Port to any Output for PDR-209.1:

10 -20 dB

DOCSIS 3.x Compliant



PDR-209 Block Diagram