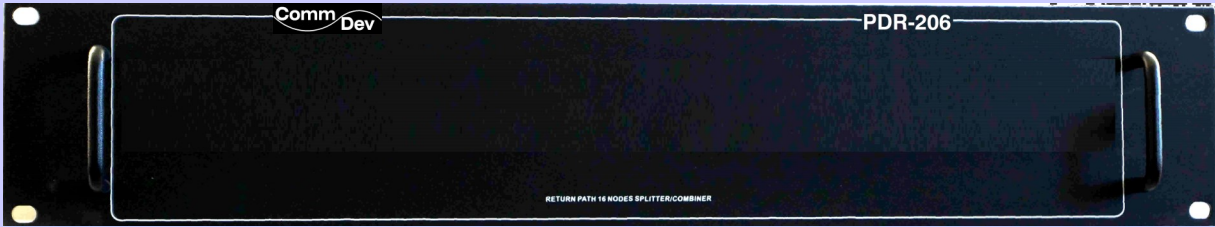
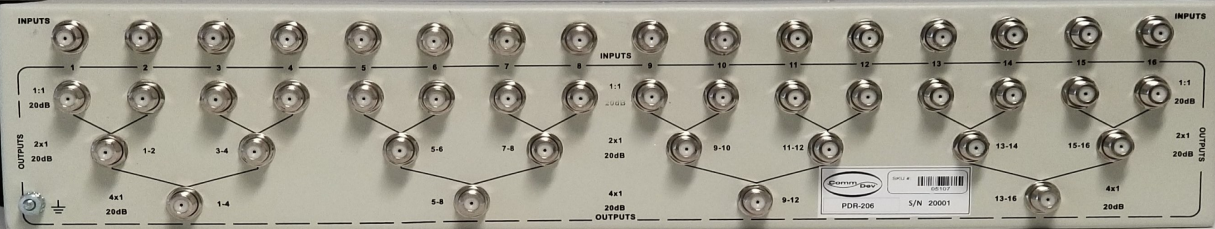


Front Panel View



Rear Panel View



### **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 are Optional

**THREE YEAR PARTS AND LABOR  
WARRANTY INCLUDED**

The new passive return combiner from CommDev, LLC Model **PRD-206**, 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-206** model allows for the introduction of (16) return path RF inputs. Each input port is then split to 3 different groups of Outputs: Split Outputs 1:1 and Combining Outputs 2x1 and 4x1. Each Outputs' group has one output ports.

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

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 8x1 and 16x1.

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:

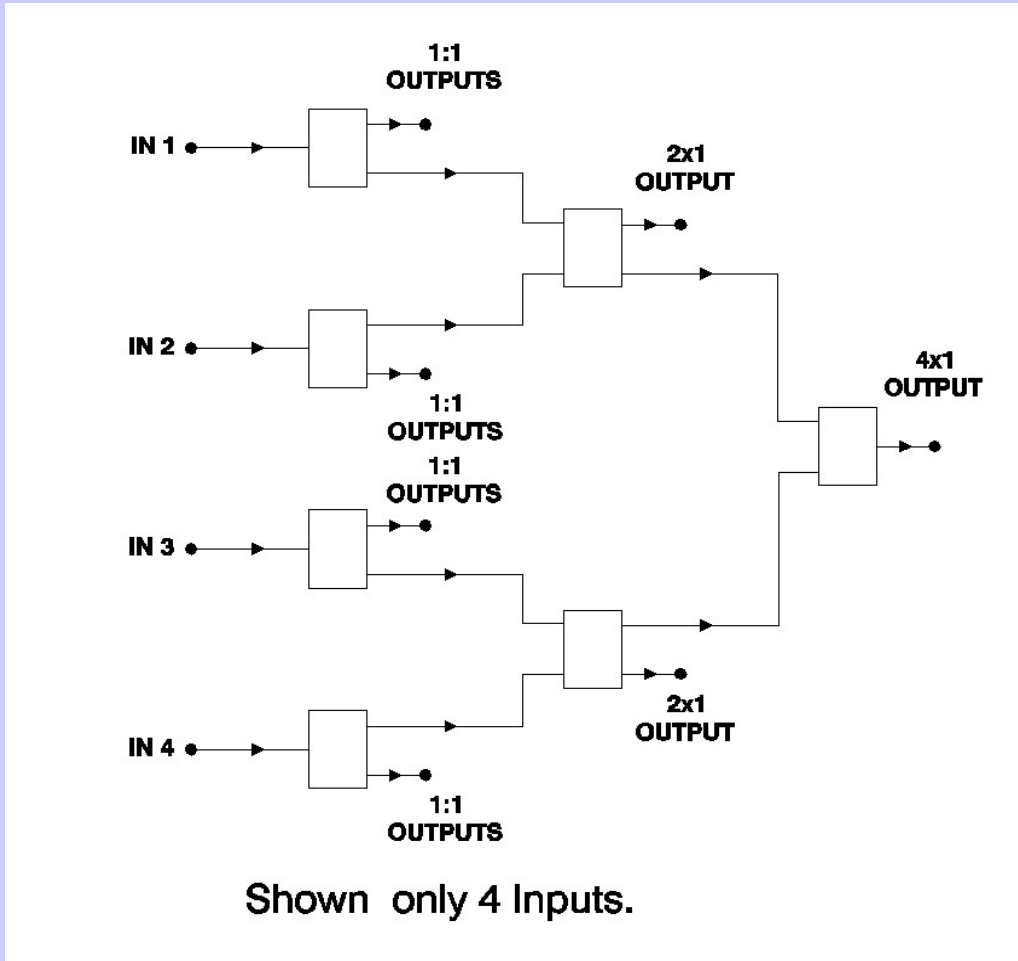
	<i>Parameter</i>	<i>Unit</i>	<i>Specification</i>
1	Frequency Band	MHz	5 - 204
2	Impedance	Ohm	75
3	Connectors Type		F-connector
4	Number of Inputs		16
5	Number of Outputs: Split 1:1 Combined 2x1 Combined 4x1		16 8 4
6	Insertion Loss (5 -200 MHz): Input - Split Output 1:1 Input - Combined Output 2x1 Input - Combined Output 4x1	dB	20±0.5 * 20±0.5 * 20±0.5 *
7	Insertion Loss Flatness	dB	±0.25
8	Return Loss, all Ports, min	dB	22
9	Isolation, min: Between Inputs: Between 1:1 Outputs: Input and 1:1Output for Different Inputs Between Combined Outputs (2x1 and 4x1):	dB	50 80 70 75
10	RF Shielding in working Frequency Band, min	dB	75
11	Dimensions (WxHxD):	inch mm	19"x3.5"x5" 483x89x127
12	Weight	lb	TBD

\*) Customizable Insertion Loss per Customer Request

Customized Insertion Loss Range:

1:1 Output	8 -26 dB
2x1 Outputs	17 -32 dB
4x1 Outputs	20 -32 dB

# DOCSIS 3.x Compliant



PDR-206 Block Diagram