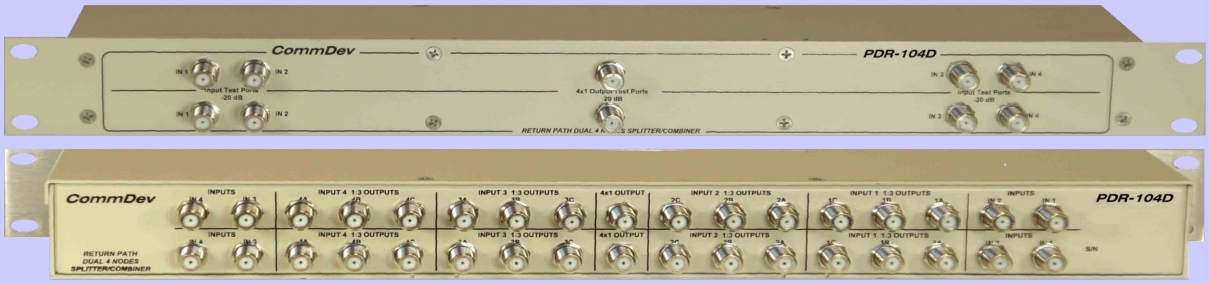
PDR-104D Dual 4-Node RF Combiner-Splitter System

Front Panel View

Rear Panel View



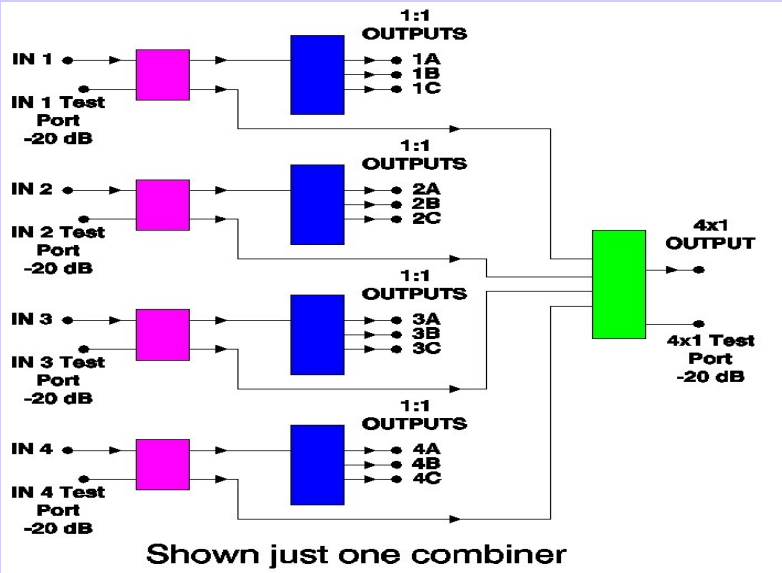
Features & Benefits:

- *Completely passive 1RU chassis*
- *Integrated circuit board design*
- *Low signal reflections from input and output ports*
- *Allows for installation of (8) Return Path Inputs*
- *High levels of Isolation between 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*
- *Custom configurations is available*

Three years parts and labor warranty included

*The new passive return device from CommDev, LLC Model **PDR-104D**, is a compact Dual 4 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 a densely populated 19" wide, compact 1RU chassis, and manufactured with integrated circuitry, the entirely passive unit is arranged for installation in a standard 19" EIA rack.

*The **PDR-104D** model allows for the introduction of (8) return path RF inputs which are segmented into two groups of (4) each. Up to (8) 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 4x1.*
Test ports (-20 dB) are mounted on the front panel of the unit for technician friendly service of all input signals and 4x1 output 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.
1RU chassis design allows for other configurations which can provide other combining group configurations, including 1:1, 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.



Shown just one combiner

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Technical Specifications:

Parameter	*Units*	*Specification*
Frequency Band	MHz	5 - 204
Impedance	Ohm	75
Connectors Type		F-connectors
Number of Independent Devices in 1RU Chassis		2
Number Inputs for each Device		4
Number of 1:1 Outputs for each Input (Input Signal split to (3)1:1Outputs)		3
Number of 4x1 Outputs for each Device		1
Insertion Loss:		
Input - 1:1 Split Outputs *)	dB	14±02.5
Input - 4x1 Combined Output *)	dB	14±0.25
Test Ports	dB	20±0.25
Insertion Loss Flatness	dB	±0.25
Return Loss:		
All Ports, min	dB	20
Isolation:		
Between Inputs:	dB	
- 5-65 MHz		40
- 65-200 MHz		35
Between 1:3 Outputs	dB	
- 5-65 MHz		40
- 65-200 MHz		38
Signal Leakage Between Different Devices	dB	
-5-65 MHz		-70
-65-200 MHz		-65
Dimensions with Connectors HxWxD	inch	1.73x19x4.5
Weight	lb	4

Notes:

*) Indicates customizable insertion loss
Per customer request
Customized Insertion Loss Range:
Output 1:1 12-26 dB
Output 4x1 14-26 dB

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