



SCD-16-200

Broadcast/Narrowcast Splitter/ Combiner with Integrated DWDM Demux for 200 GHz

Key Features

- Integrated BC Splitter, BC/NC Combiner and Demux
- Significant Rack Space Savings
- Reduced Number of Fiber Jumpers
- Convenient Access for Pad Adjustment
- Uniform or Custom Splitting Ratio
- Integrated Power Taps

Applications

- HFC DWDM Networks with Separate BC/NC Fibers
- Downstream Distribution Links
- Analog and Digital Transmission



Product Overview

The SCD-16-200 Broadcast/Narrowcast Splitter/Combiner with an integrated DWDM Demultiplexer is the industry first, fully integrated unit that operates in the downstream portion of the HFC system. It saves shelf space and reduces exposed fiber jumpers, while integrating the demux, splitting and combining functions in a single product. The unit provides power monitoring taps for each incoming and outgoing signal, as well as convenient panel access for pad adjustment of the incoming narrowcast signals. Our field-proven free-space diffraction grating technology gives the SCD-16-200 industry-leading insertion loss, excellent channel uniformity and extremely low chromatic dispersion.

Product Specifications

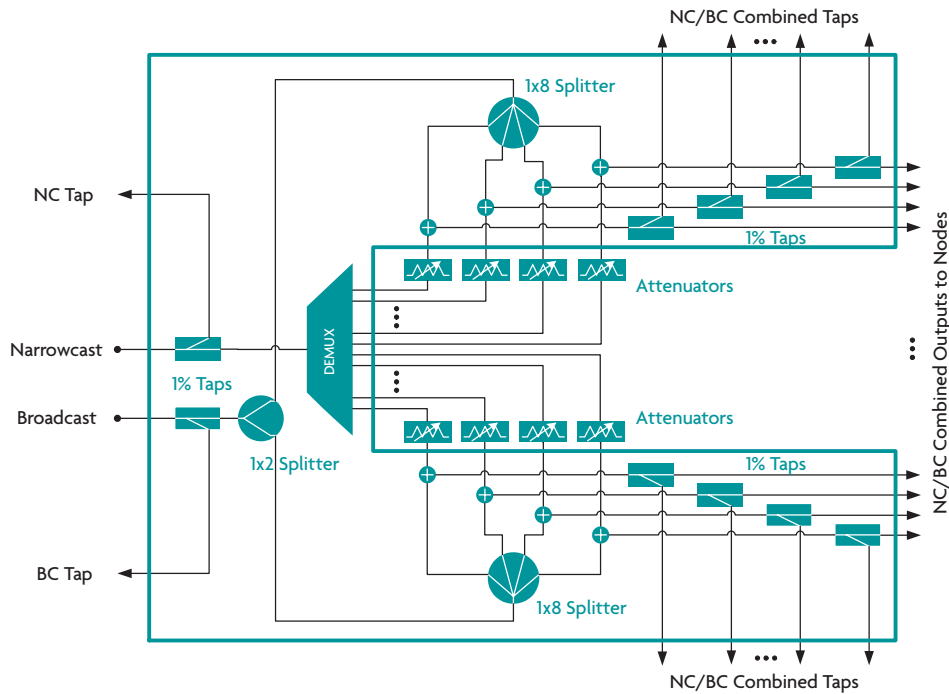
(Valid over full temperature range, within specified passband, across all channels and polarizations)

Channel Count	16	Narrowcast Passband	0.4 nm
Channel Spacing	200 GHz	Narrowcast Ripple	≤0.5 dB
Broadcast Window	1543.55-1546.25 nm	Adjacent Isolation	≥27 dB
Narrowcast ITU Channels:		Non-adjacent Isolation	≥35 dB
Lower 8 Channels	1530.334 – 1541.349 nm	IL Uniformity Across All Channels	≤1.5 dB
Upper 8 Channels	1549.315 – 1560.606 nm	Optical Return Loss	>40 dB
Insertion Loss ¹⁾ :		Polarization Dependent Loss (Typ.)	≤0.4 dB
Broadcast Input to Combined Output ²⁾	15.7 dB	Fiber Connector	SC/APC
Broadcast Input to Monitor Port	20 dB	Operating Temperature	-5 to +65 °C
Narrowcast Input to Combined Output	3.8 dB	Storage Temperature	-40 to +85 °C
Narrowcast Input to Monitor Port	20 dB	Enclosure	3 RU Rack Mount
Combined Output to Monitor Port	20 dB	Dimensions	17.1" W x 5.2" H x 11.8" L

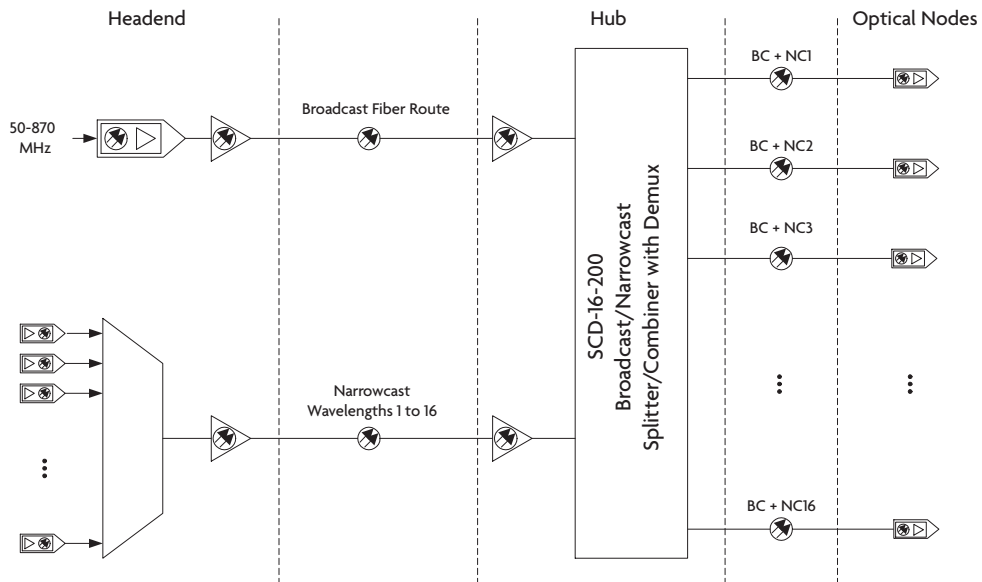
1) Including connectors and taps

2) For uniform split. Varies for non-uniform split

SCD-16-200 Block Diagram (Only 8 channels shown for clarity)



Application Example



Specifications subject to change without notice. Rev. 09/04
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