

Features

- Low loss integrated 1550 nm broadcast / 1310 nm narrowcast 4-output combiner
- Simplifies installation and reduces rack space requirements
- Eliminates need for four optical jumpers
- Occupies one half-depth slot
- Combines signals in 1264.5–1357.5 nm with signals in 1530–1570 nm band

Light-Plex™ Optical 1550nm Broadcast / 1310nm Narrowcast 4-output Combiner



The Model OP3334 provides a single 1550 nm broadcast input port and four 1310 nm narrowcast input ports. The 1550 nm broadcast signal is split four ways for multiplexing with each of the four independent 1310 nm narrowcast signals through a minimum loss combiner, with the resulting signals passed to four broadcast/narrowcast output ports.

The OP3334 is a completely passive combiner and is housed in Aurora's standard single-width, half-depth passive products module.

The integration of splitting and combining functions into one half-depth module simplifies narrowcasting installations, improves efficiencies by reducing optical losses, and requires less rack space than alternative equipment.

The OP3334 is also used to combine signals in 1530–1570 nm band of four inputs with 1264.5–1357.5 nm passbands.

OP3334

Product Specifications

Physical:

- Dimensions: 6.5" D x 4.3" H x 1.0" W (3RU) (17 cm x 11 cm x 2.5 cm)
- Weight: 1.5 lbs (0.68 kg)

Environmental:

- Operating temperature range: -20° to +65°C (-4° to 149°F)
- Storage temperature range: -40° to +85°C (-40° to 185°F)
- Humidity: 5% to 95% non-condensing

Optical Interface:

- Optical connectors: SC/APC
- Inputs:
NC INP1 through NC INP4 (narrowcast content at 1310 nm)
BC INP (broadcast content at 1551 nm)
- Outputs:
BC/NC OUT1 through BC/NC OUT4

General:

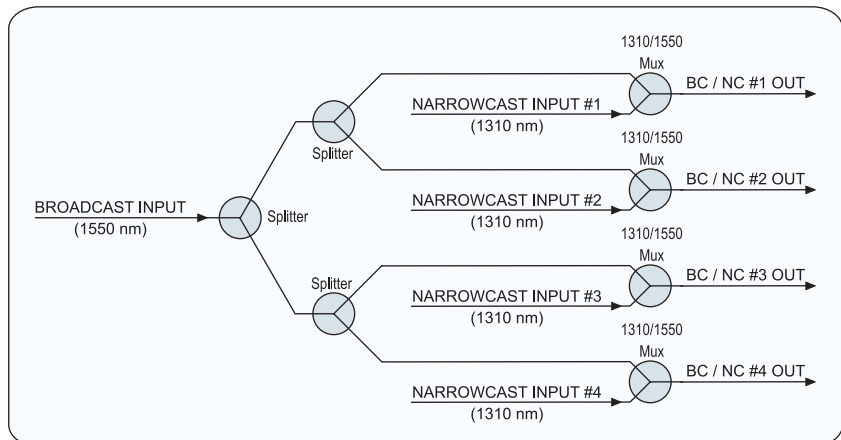
- Optical return loss, min: 42 dB
- Polarization Dependent Loss (PDL), max: 0.2 dB
- Directivity, min: 52 dB

Optical:

- Optical power handling: 27 dBm max
- Broadcast:
Passband: 1550 ±20 nm
Insertion loss: Typ <6.7 dB (including connectors)
Max 7.2 dB (including connectors)
- Uniformity¹: Typ: <0.4 dB (including connectors)
Max: 0.6 dB (including connectors)
- Narrowcast:
Passband: 1264.5 to 1357.5 nm
Insertion loss²: Typ <0.4 dB (including connectors)
Max 0.7 dB (including connectors)
- Uniformity¹: Typ: <0.3 dB (including connectors)
Max: 0.4 dB (including connectors)
- Ripple within passband: 0.5 dB

¹ Uniformity defined as the difference between minimum and maximum output power across the four output ports.

² 1310 nm narrowcast insertion loss from INP_n to OUT_n



Ordering Information

OP3334S-0-00-AS

1550 nm BC / 1310 nm NC 4-output Combiner

AS = SC/APC Connector



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