

Features

- High-output power level, up to 13 dBm to each of 8 ports
- Low noise figure
- Optical path isolation (input and output)
- Output power alignment
- Front panel laser On/Off interlock switch
- Hot plug-in/out
- Local and remote status monitoring and control
- Occupies two full-depth slots

Broadcast Multiport Optical Amplifier



The Aurora CA3524 Broadcast EDFA is a high-output, eight port, extremely compact 1550 nm optical amplifier. Output power of 13 dBm to each of eight output ports is available in a double-width module designed for use in the CH3000 3RU chassis.

Designed and specified for a single broadcast optical carrier anywhere in the 1530 to 1565 nm optical spectrum, this high performance amplifier allows operators to drive multiple broadcast optical outputs with a single, space efficient device that minimizes external connections and eliminates the need for an optical splitter.

The compact design makes this amplifier the highest density EDFA in the market, dramatically reducing rack space requirements in the headend and hubs. This design enhances the deployment of traditional HFC, passive HFC and fiber to the home (FTTH) networks.

CA3524

Product Specifications

Physical:

- Dimensions: 13.0" D x 5.25" H x 2.0" W
(33 cm x 13.3 cm x 2.5 cm)
- Weight: 4.0 lbs (1.8 kg)

Environmental:

- Operating temperature range:
0° to +50°C (32° to 122°F)
- Storage temperature range:
-40° to +85°C (-40° to 185°F)
- Humidity: 5% to 95% non-condensing

General:

- Hot plug-in/out
- Mode of operation: Constant current
- Number of pump lasers: 2
- Output power alignment: Manual

Power Requirements:

- Input voltage: 12 V_{DC}
- Power consumption: 18 W

Optical Interface:

- Optical connectors (input and output): SC/APC

Optical:

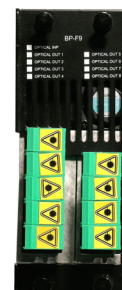
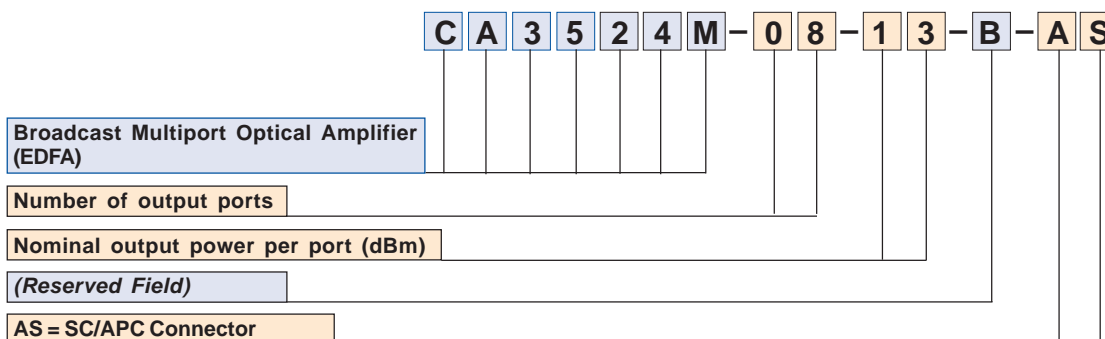
- Input signal wavelength: 1530–1565 nm
- Input power range: -10 to +10 dBm
- Optical signal path isolation: >30 dB
- Output power stability: ±0.6 dB
- Output power margin (for each of 8 output ports):
0.4 dB min (at 0 dBm input)
0.8 dB max
- Output power adjustment range, min: -3.0 dB
(from nominal output power)
- Uniformity: 0.8 dB highest port to lowest port

Performance Parameters:

| Model Number | Output Power, nominal (dBm) | Noise Figure, typical ¹ (dB) | Noise Figure, max ¹ (dB) |
|--------------|-----------------------------|---|-------------------------------------|
| CA3524M | 8 x 13 | 4.5 | 5.0 |

¹ Measured optically at 0 dBm input, $\lambda = 1545$ and 1563 nm in vacuum, $T_A = 25^\circ\text{C}$.

Ordering Information



Required Module Back Plate

B P - F 9

Back Plate is included with ordered module.



Corporate Headquarters
 5400 Betsy Ross Drive
 Santa Clara, CA 95054
 Tel 408.235.7000
 Fax 408.845.9045