



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### Key Features

- ▶ Small Pluggable Erbium-Doped Fiber Amplifier in standard XFP module
- ▶ Optical output power up to +17 dBm
- ▶ Flat gain for 8-wavelength DWDM links
- ▶ Automatic power control
- ▶ LC Angled-Physical Contact (APC) optical interfaces for low reflections
- ▶ Built-In digital diagnostic functions
- ▶ Low power consumption: 2.5 Watts
- ▶ Plugs into Finisar's XFP-RF Transmitter Host System XC00AAQTZAJ

### Applications

- ▶ Multi-wavelength segmentation of CATV nodes
- ▶ RF-over-Glass networks
- ▶ Long-distance Hybrid Fiber Coaxial (HFC) optical links

## XFP-OA Optical Amplifier

### Overview

Finisar's XFP-OA Optical Amplifier is an Erbium-Doped Fiber Amplifier (EDFA) in a small form factor hot-pluggable optical module. It amplifies optical signals to enable long Hybrid Fiber Coaxial links and/or high optical splitting for RF-over-Glass architectures. The optical output power, which is settable by the user, is kept constant through an active feedback loop.

The XFP-OA can be paired with Finisar's wavelength-tunable XFP-RF Transmitters for single wavelength applications or Dense Wavelength Division Multiplexing (DWDM) up to 8 wavelengths. It installs into the same Finisar XFP-RF host system so it can be monitored and controlled through embedded Web Browser Graphical User Interface or through a network management system.



### Product Selection

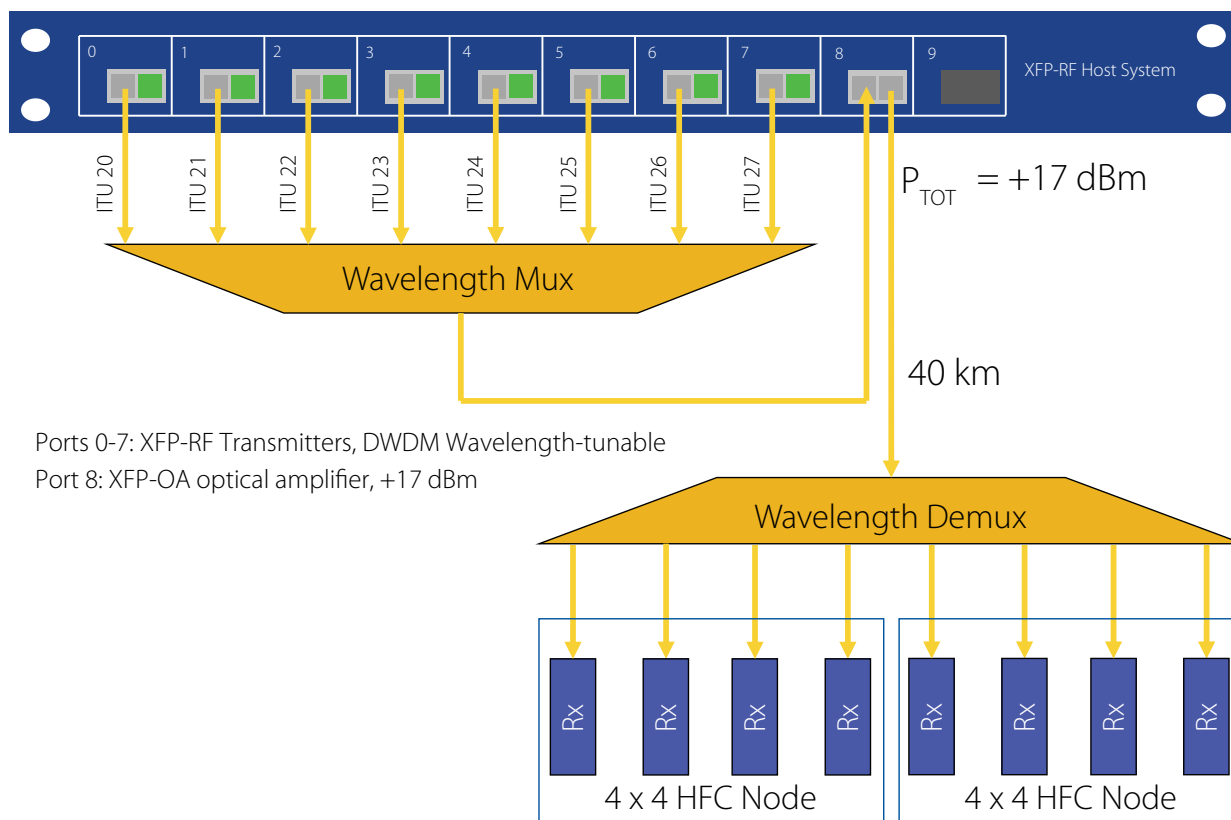
Part Number	Description
XA17AAZ5ZZJD	XFP Pluggable Optical Amplifier, +17 dBm, LC/APC
XA13AAZ5ZZJD	XFP Pluggable Optical Amplifier, +13 dBm, LC/APC

# XFP-OA Optical Amplifier

## Specifications

Parameter	Value
Optical Wavelength Range	1529 nm to 1563 nm
Optical Input Power	-5 dBm to +10 dBm
Optical Output Power	+17 dBm (XA17AAZ5ZZJD) +13 dBm (XA13AAZ5ZZJD)
Optical Output Power Adjustment Range	-3 dB to 0 dB
Multi-Wavelength Gain Flatness	1.0 dB peak-to-peak from 1554.5 nm to 1561.0 nm
Noise Figure	5 dB Typical
Optical Interface	LC/APC receptacle (angled physical contact)
Case Operating Temperature	0°C to 70°C
Storage Temperature Range	-40°C to 85°C
Power Consumption	2.5 Watts maximum
Data/Control	Digital diagnostic functions via two-wire serial interface
Mounting	XFP cage assembly on host module

## Reference architecture for multi-wavelength node segmentation:



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