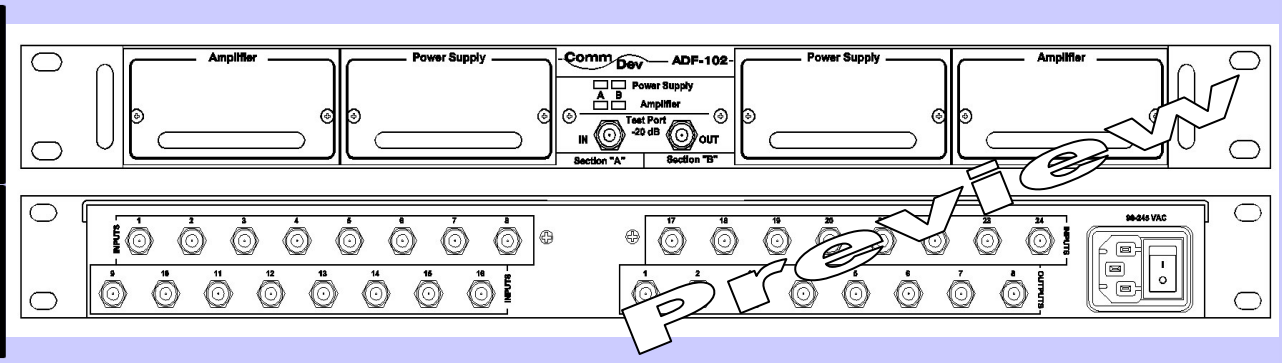
ADF-102 Series / Active Distribution System

Front Panel View

Rear Panel View



Features and Benefits

As an active forward path distribution device, the unit provides 8 output ports with an ultra-fiat signal response for delivery to an optical transmitter in the frequency range 48-1002MHz.

- *Compact & modular construction, occupies only 1RU*
- *Load-sharing redundant power arrangement*
- *Simplifies engineering and architecture design challenges and allows for duplication between sites.*
- *Significantly reduces the use of external jumper cables, power consumption, rack space, and manpower hours of labor.*
- *With multiple configuration options for signal balancing, the units are compatible with a wide range of optical transmitters.*
- *Custom designs welcomed.*

THREE YEAR PARTS AND LABOR WARRANTY INCLUDED

*Model number **ADF-102** is a Forward Path Active Distribution Device designed for typical usage within headend and hub site environments. Built within a standard 19" EIA rack, the unit is compact, and modular while using only 1 rack units of space. The system provides an ultra-flat RF output signal for distribution to optical transport. It is an extremely reliable and cost effective platform and has a very flexible feature set required for today's modern cable TV plant.*

As a completely active distribution device, the unit allows for architecture design consistency amongst multiple hub sites while saving precious rack space. As an integrated system solution, the device will significantly reduce external cabling. A flexible feature set allows for moves, adds, and changes as the cable network evolves; ready to solve the challenge of complex RF combining and splitting schemes.

The chassis is arranged internally in two sections. The input section is arranged with a 24-way combiner at the input with the common output signal being distributed to an 8-way splitter at the output. The chassis can accommodate a maximum number of 32 ports; meaning that various input / output configurations can be achieved. All models in the ADF Series offer an optional redundant power supply arrangement, and include contact closure pin out alarms for monitoring the performance status of amplifiers and power supplies.

The modular chassis construction allows for various amplifier gain blocks to be inserted, creating the desired output signal level to align with all types of optical transmitters from older legacy units to more modern units. It is common to configure the output signal levels so as to interface with the appropriate input level specified by the optical transmitter.

The front panel of the chassis provides access multiple test ports, amplifiers, power supplies, and status LED's for technician friendly maintenance and signal control.

Options include a variety of amplifier gain modules, input and output sections, and an option for either universal power 90-260VAC or -48VDC.

Please contact us for additional technical support or product information.

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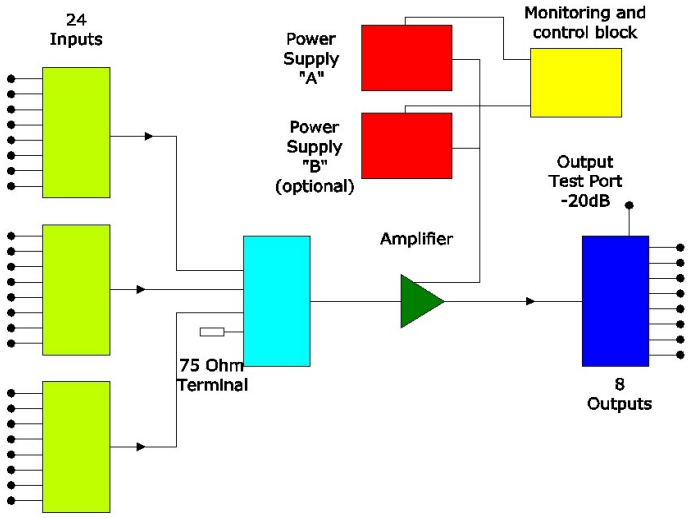

Technical Specifications:

Parameters	*Units*	*ADF-102.1*	*ADF-102.2*
Bandwidth	*MHz*	*48 - 1002*	*48 - 1002*
Number of Inputs		*24*	*24*
Number of Outputs		*8*	*8*
Insertion Loss Input - Output	*dB*	*10.0±0.5*	*7.0±0.5*
Insertion Loss Flatness	*dB*	*±0.5*	*±0.5*
Return Loss all Ports, min	*dB*	*20*	*20*
Isolation between Inputs and Outputs	*dB*	*30*	*30*
Recommended Input Signal Level (132 ch., analog flat):	*dBmV*	*40*	*37*
Distortions for Recommended Input Signal Level, max	*dBc*	*-60*	*-60*
C/N Ratio	*dB*	*75*	*72*
RFI	*dB*	*110*	
Control Output (DB-15)		*NC Contact each active part*	
Powering:			
Universal	*VAC*	*98-240/50-60Hz*	
DC	*VDC*	*-48*	
Power Consumption	*W*	*14*	
Dimensions	*inch*	*3.5Wx19Wx14D*	
Weight	*lb*	*10*	

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