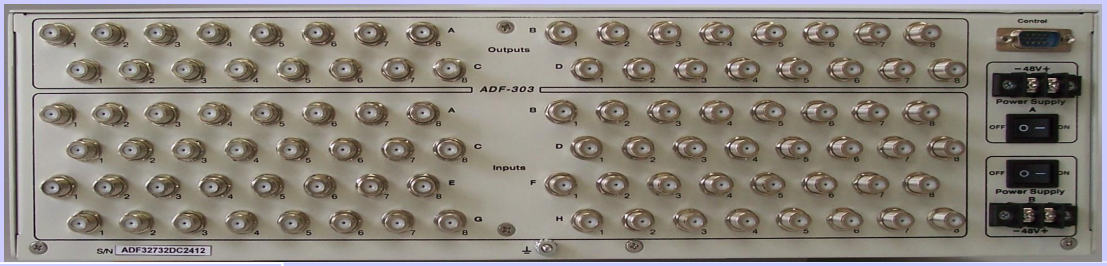
ADF-303 Active Distribution Device

Front Panel View

Rear Panel View



Features and Benefits

As an active forward path distribution device, the unit provides for the installation of up to 64 inputs which are combined and distributed to 32 output ports with an ultra-fiat signal response for delivery to an optical transmitter in the frequency range 48-1002MHz.

Options with working frequency range 48-1218MHz is available.

- *Compact and modular active components. construction, occupies only 3RU space.*
- *Load-sharing redundant power configuration.*
- *Simplifies engineering and architecture design challenges and allows for duplication between sites.*
- *The unique system design contains a built-in RF Switch microcontroller circuit which provides a self-calibration function which will significantly reduce RF switch failure caused by unequal RF parameters at the RF detector circuit of each input.*
- *Significantly reduces the use of external jumper cables, 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-303** is a Forward Path Active Distribution Device designed for typical usage within headend and hub site environments. The chassis is designed for installation within a standard 19" EIA rack, is compact and modular while using only 3 rack units of space, and provides an ultra-flat RF output signal for distribution of combined signals for 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 redundant and active distribution device, this unique system solution allows for project managers to have architecture design consistency amongst multiple hub sites while saving precious rack space.

The integrated system will significantly reduce the amount of external cabling typically required. Its' flexible feature set allows for moves, adds, and changes as the cable network evolves; ready to solve any future challenge of complex RF combining and splitting schemes.

The units are designed for the insertion of up to 64 input signals which are combined and distributed to 32 outputs. Multiple test ports, amplifiers and power supplies status LED's are provided on the front panel for easy maintenance and signal control.

The modular placement of the units active components such as power supplies and amplifiers are present on the front side of the chassis. This arrangement allows for design flexibility, optimum performance results, and compliance with site requirements. Standard built-in features of the system include contact closure pin out alarms for monitoring the performance status of amplifiers and power supplies, and a redundant power configuration available in either a universal 90-260VAC, or -48VDC.

The system is uniquely configured to allow the introduction of advanced revenue generating services, without disrupting the network or its current content delivery.

Please contact us for additional technical support or product information.

CommDev LLC * 4500 Hiatus Road, Suite 202, Sunrise, Florida 33351
E-mail: Info@commdev.net WEB: www.commdev.net Phone: +1(954) 746-4747

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Technical Specifications:

Parameters	Units	ADF-303
Bandwidth	MHz	48 - 1002
Number of Inputs		64
Number of Outputs		32/16/8
Insertion Loss Input - Output (64 Input&32 Outputs):	dB	
Amplifier Gain 20 dB		30.0±0.5
Amplifier Gain 25 dB		25.0±0.5
Amplifier Gain 27 dB		23.0±0.5
Amplifier Gain 30 dB		20.0±0.5
Insertion Loss Flatness	dB	±0.5
Return Loss all Ports, min	dB	20
Isolation between Inputs and Outputs	dB	35
Input Test Port Flatness	dB	±0.5
Output Test Port	dB	-20.0±0.5
Maximum Output Signal Level (132 ch., analog, flat):	dBmV	
32 Outputs (25 dB Amplifier's Gain)		25
16 Outputs		29
8 Outputs		33
Distortions for Recommended Output Signal Level,	dBc	-60
C/N Ratio	dB	79
RFI	dB	110
Powering:		
Universal	VAC	98-240/50-60Hz
DC	VDC	-48
Power Consumption, max	W	35
Dimensions	inch	5.25Wx19Wx14D
Weight	lb	14

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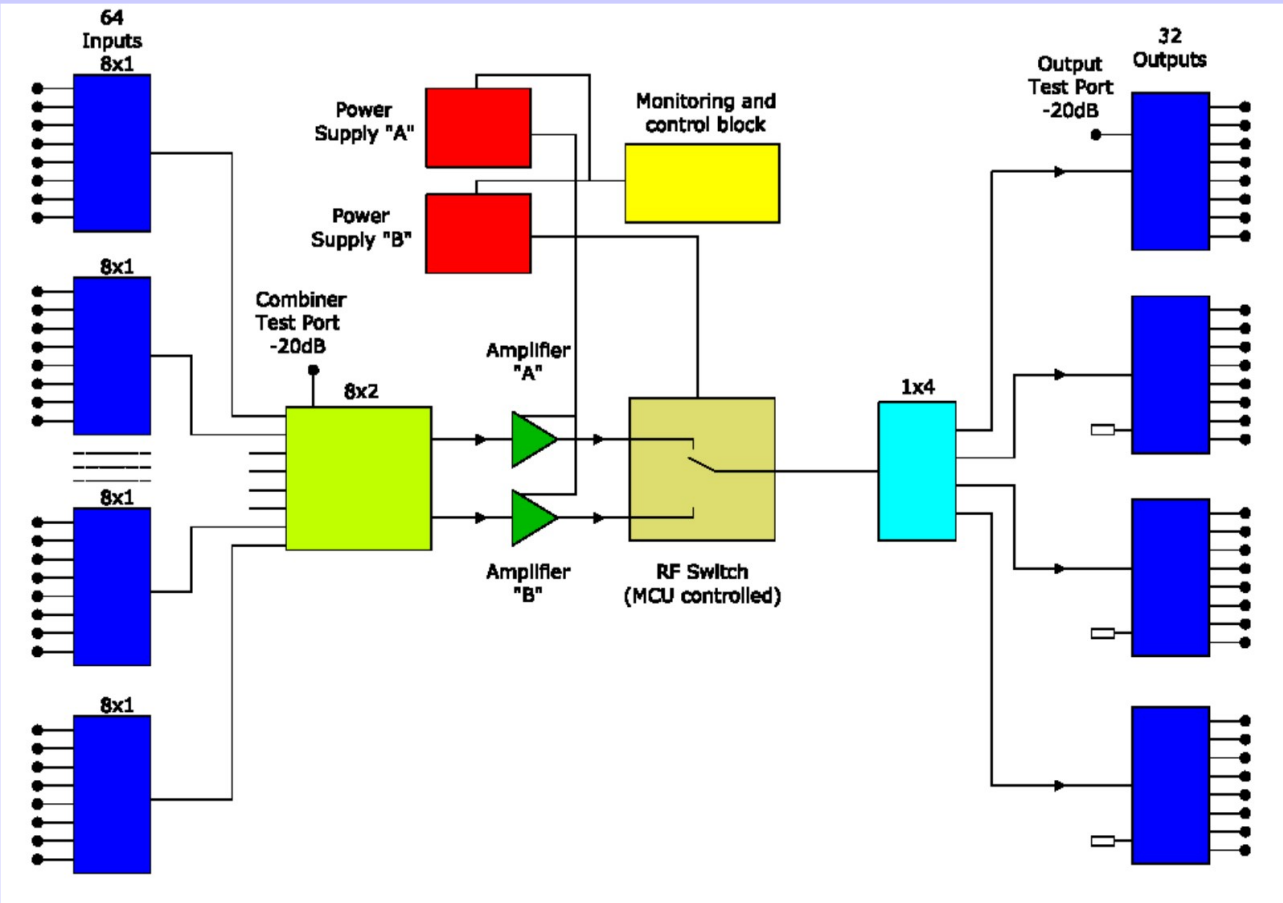
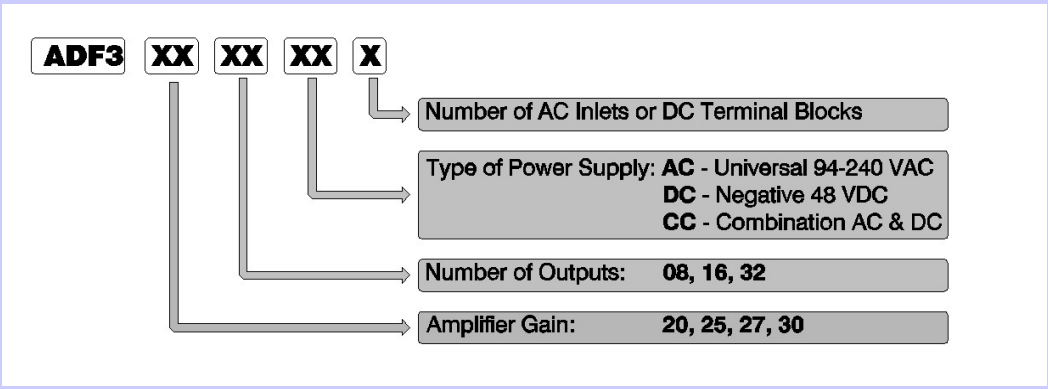


ADF-303 Block Diagram



Ordering Information

Example: "ADF3-25-32-AC2"

ADF3	*ADF-303 device*
25	*dB Gain level of Amplifier*
32	*32 of Outputs*
AC	*Power Supply configuration (2) pcs.*
2	*2 of AC power Inlets*

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