

Front Panel View



Rear Panel View



## Features and Benefits

As an active forward path modular distribution device, the unit provides up to 16 output ports with an ultra-flat signal response for delivery to an optical transmitter operating within the frequency range of 48-1002MHz or 48-1218 MHz.

- Provides for 5 Input Signals and up to 16 outputs
- Fully modular device for easy further upgrade and modification
- Load-sharing redundant power arrangement with contact closure alarms
- 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.
- Custom designs welcomed.

**THREE YEAR PARTS AND  
LABOR WARRANTY  
INCLUDED**

Model number **ASF-101** is a Forward Path Active Distribution Device (Active Splitter) designed for usage within headend and hub site environments. Arranged for typical installation within a standard 19" EIA rack, the system is compact and modular while using only 1 rack unit of space. It provides an ultra-flat RF output signal for distribution to optical transport, 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 solution allows for architecture design consistency amongst multiple hub sites while saving precious rack space. The integrated system solution 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.

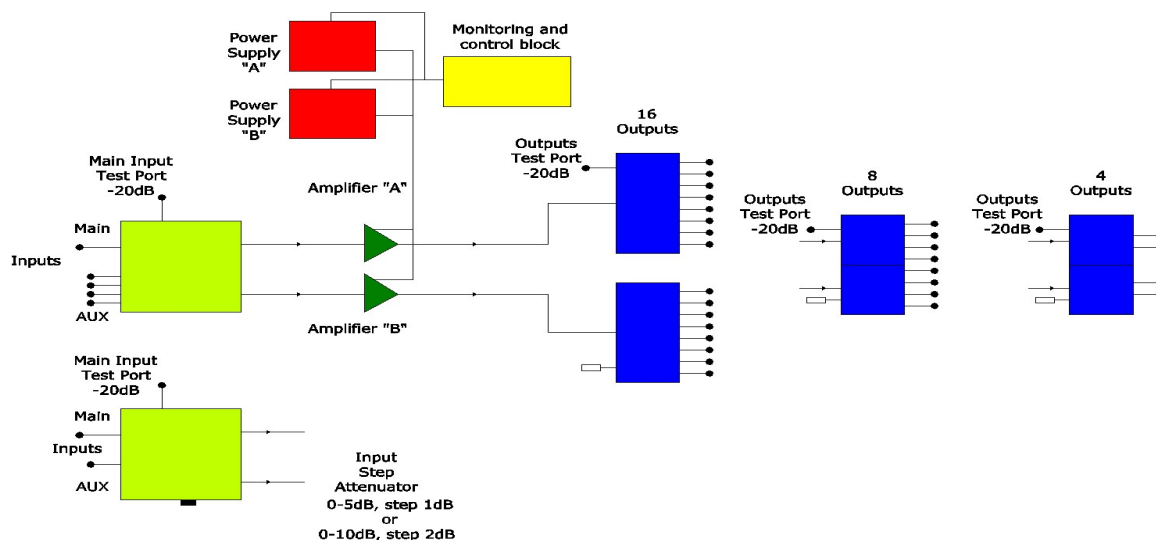
The units are designed for the active distribution of up to 5 input signals which are combined and split for distribution into two separate groupings of 8 outputs each. The system is uniquely configured to work in conjunction with our passive narrowcast units. See the **PNF-108**, **PNF-111** and **PNF-112** Series of Narrow-caster devices.

The splitter option **ASF-101.1** works up to frequency 1218 MHz.

Inserting various amplifier gain blocks allows the system to be compatible with various optical transmitters from legacy and current manufacturers. Multiple Test Ports, Amplifiers and Power Supply status LED's are provided on the front panel for maintenance and signal control. All models include a redundant power supply configuration with a choice of either universal 90-260VAC, or a -48VDC power, and contact closure pin out alarms to monitor the status and performance of all amplifier and power supplies. An optional custom main input section module is also offered with built-in step attenuation or step equalization for system balancing of broadcast signals being introduced to the device.

The uniquely configured system allows introduction of advanced revenue generating services, without disrupting the network or its current content delivery. Furthermore, its' modular construction allows for design flexibility, optimum performance results, and compliance with all site requirements.

Please contact us for additional technical support or product information



### Technical Specification:

Parameters	Units	Spec
Bandwidth	MHz	48-1002 / 48-1218
Number of Inputs		5
Number of Outputs		4,8 or 16
Insertion Loss:	dB	
System Input - Output		0.0±0.5 / 2±0.5
AUX Input - Output		22.0±0.5 / 24.0±0.5
Insertion Loss Flatness	dB	±0.5
Return Loss all Ports, min	dB	20
Isolation between Inputs and Outputs	dB	30
Recommended Input Signal Level (132 ch., flat):	dBmV	
System Input		34
AUX Inputs		56
C/N Ratio	dB	-78
Distortions (for Recommended Input Signal Level):	dBc	
CTB		-62
CSO		-63
XMOD		-59
Powering:		
Universal	VAC	98-240/50-60Hz
DC	VDC	-48
Dimensions	inch	1.75Wx19Wx14D
Weight	lb	16
All Parameters based on use of a 20 dB Gain Amplifier, 16 Outputs and Standard Input Section Module (1 Main and 4 AUX Inputs)		

Ordering Information:**Option One: (Recommended):**

Customer will prepare and send to CommDev a detailed set of information regarding the signal conditions where the unit will be installed. The information required will include:

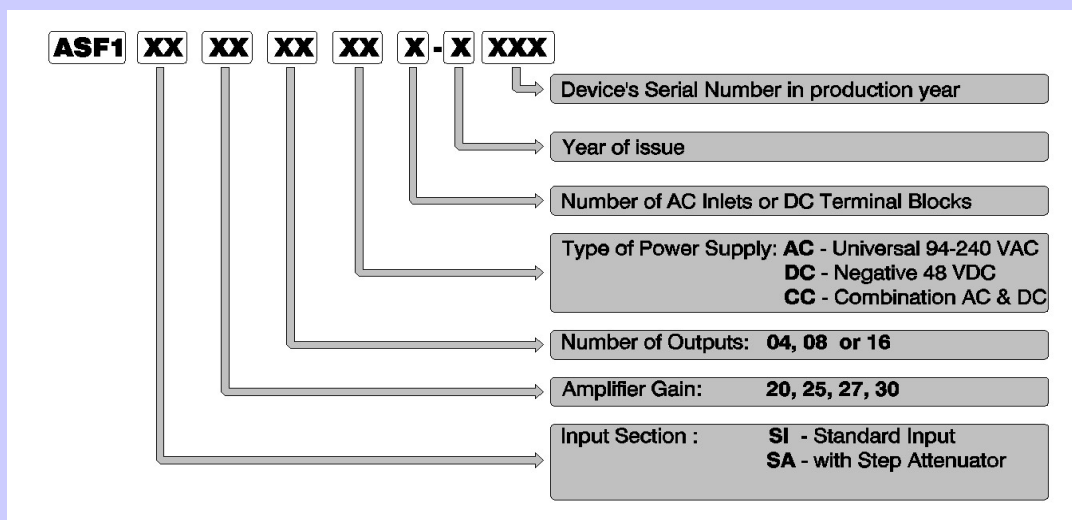
1. Customer selection of Main Input Section type
2. Total Number of Outputs
3. Type of Power Supply : AC Universal, DC -48 V, or combination.
4. Number of AC Inlets or Terminal Blocks for DC powering.
5. System Main Input channel loading condition to include the total quantity of Analog and Digital Channels, Low and High frequency for each group.
6. Maximum Input Signal Levels for each group of Channels, Tilt or Slope in groups.
7. Required Signal Level at Output for Analog or Digital channels

CommDev will provide the customer with all necessary calculations to determine the proper configuration for the system which will include: amplifier module selection, dB Gain level with Distortion calculations for required Output Signal Level.

**Option Two:**

Customer to specify the first 6 positions of the Part Number of the required device according to picture.

*The last two positions of the final model number are added at the factory prior to shipment*



For Example: Part Number: **"ASF1-SI-25-16-AC-2"**

"ASF1"  
"SI"  
"25"  
"16"  
"AC"  
"2"

ASF-101 device with "  
Standard Input Section 1 Mail and \$ Auxiliary Inputs  
25 dB Gain Amplifiers  
16 Outputs  
AC Power Supplies - 2 pcs  
2 pcs of AC power Inlets