

Bi-Directional Launch Amplifier

Broadband 54-1000 MHz forward bandwidth,
5-36 MHz active reverse path

30 dB typical forward-path gain for optimum
performance to overcome combining losses
and provide ample level for distribution

20 dB active reverse-path gain for extra level
to distribute reverse path signals to CMTS and
other upstream applications

Adjustable gain and slope controls to
optimize carrier-to-noise ratio and provide
superior picture quality and easy
system balancing

Plug-in equalizers and attenuators
(included) enable uniform gain and slope
system balancing for minimum distortion

Employs dual state-of-the-art push-pull
hybrid technology for very low distortion,
high input and output capability

-20 dB input and output test points
enable simplified setup and performance
monitoring without service interruption

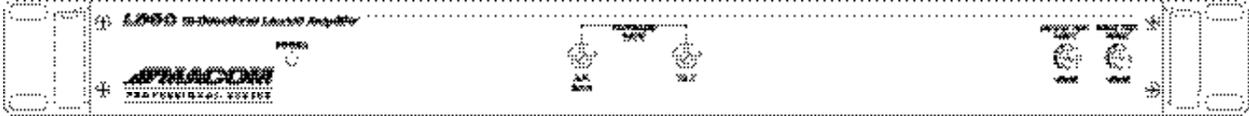
Built-in lightning and line-voltage surge
protection safeguards the unit from damage



The **MACOM L860** two-way broadband distribution amplifier is a high quality dual push-pull amplifier producing forward and reverse signals with extremely low distortion and high output levels. The amplifier is capable of operation over the 54-1000 MHz range in the forward path and provides a 5-36 MHz return path. This amplifier is designed for bi-directional cable distribution systems used in institutional and MDU environments, which employ reverse path signals such as cable modems, remote status monitoring and remote TV origination. This rack-mounted amplifier makes an excellent headend launch amplifier and can be used in conjunction with the **MACOM C860** passive headend combiner to overcome losses associated with signal combining in broadband CATV systems. The **MACOM** line is backed by an industry leading 5-year limited warranty.

L860

Product Specifications



Front Panel



Rear Panel

RF Input

Frequency Range (fwd): 54-1000 MHz
 Frequency Range (rev): 5-36 MHz
 Input Capability (fwd): See Chart
 Impedance: 75 ohms
 Return Loss (5-36 MHz): 16 dB min.
 Return Loss (54-1000 MHz): 15 dB min.
 Test Point: -20 dB ±3 dB

RF Output

Frequency Range (fwd): 54-1000 MHz
 Frequency Range (rev): 5-36 MHz
 Gain (fwd): 30 dB min.
 Gain (rev): 20 dB min.
 Gain Control (fwd): 18 dB min.
 Tilt Control (fwd): 15 dB min.
 Impedance: 75 ohms
 Return Loss (5-36 MHz): 16 dB min.
 Return Loss (54-1000 MHz): 15 dB min.
 Test Point: -20 dB ±3 dB

General

Power Input: 90-260 VAC, 12 W
 Operating Temperature: -10°C to 50°C
 Dimensions: 19"(L) x 12"(D) x 1.75"(H)
 Weight: 7.8 lbs.
 Connectors: "F" type

Channel Loading Chart

Channels	Max Input Level	Max Output Level
12	21	52
24	18	49
36	17	48
48	15	46
72	14	44
96	12	42
158	11	41

Ordering Information

L860 Bi-Directional Launch Amplifier

Related Products

- MACOM-AT06** Plug-in Attenuator
- MACOM-AT09** Plug-in Attenuator
- MACOM-AT12** Plug-in Attenuator
- MACOM-AT16** Plug-in Attenuator
- MACOM-EQ06** Plug-in Equalizer
- MACOM-EQ09** Plug-in Equalizer
- MACOM-EQ12** Plug-in Equalizer
- MACOM-EQ16** Plug-in Equalizer
- C860** Bi-Directional Combiner