

Bi-Directional Combiner

Broadband 5-1000 MHz

Broadcast quality specifications for unparalleled picture quality

Sub-band output port provides high isolation VHF/UHF ingress-free return path for CMTS and remote audio/video application

>18 dB return loss provides reduced reflections for exceptional digital signal performance

Directional coupler design provides improved carrier-to-noise, system performance and picture quality

High -50 dB port to port isolation provides spurious carrier rejection and minimizes undesired channel interaction, thereby reducing picture distortion

Passive design allows bi-directional flexibility for two-way digital and analog requirements

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

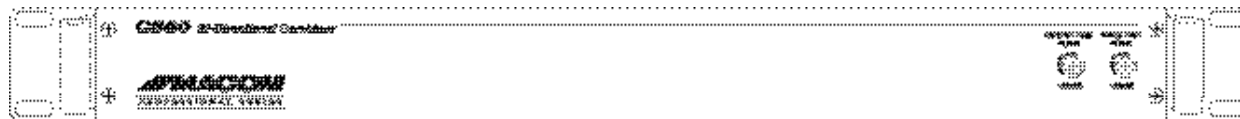
-20 dB test port provides convenient access for headend testing and system monitoring



The **MACOM C860** is a professional re-broadcast grade, rack-mounted, high isolation, passive headend signal combiner available in a 24-channel configuration. This unit combines the outputs from multiple modulators and processors into a single common broadband output. The high quality directional coupler design enables high isolation between input ports, providing minimum interaction between digital and/or analog input sources. Plug-in equalizers and attenuators provide system balancing capability and a high isolation sub-band output port for return path applications further enhance the versatility of this combiner. The **C860** combiner makes it ideally suited for bi-directional applications, such as cable modems, remote audio/video origination or other applications where remote signal origination is returned to the headend. The **MACOM** line is backed by an industry leading 5-year limited warranty.

C860

Product Specifications



Front Panel



Rear Panel

RF Input

Frequency Range (fwd):	54-1000 MHz
Frequency Range (rev):	5-42 MHz
Isolation 54-1000 MHz (Adjacent):	40 dB
(Opposing):	50 dB
Return Loss:	-18 dB
Impedance:	75 ohms
Test Point:	-20 ±3 dB

RF Output

Frequency Range (fwd):	54-1000 MHz
(rev):	5-42 MHz
Insertion Loss (5-42 MHz):	1.8 dB min
(54-550 MHz):	28 dB min
(551-1000 MHz):	31 dB min
Flatness (5-42 MHz):	±0.5 dB
(54-550 MHz):	±1.0 dB
(551-1000 MHz):	±1.5 dB
Return Loss:	-18 dB
Impedance:	75 ohms
Test Point:	-20 ±3 dB

General

Dimensions:	19"(L) x 12"(D) x 1.75"(H)
Weight:	3.8 lbs.
Connectors:	"F" type

Ordering Information

C860 Bi-Directional Combiner

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
- A860** Agile Modulator
- A860S** Agile Stereo Modulator
- F860-Channel** Fixed Modulator
- F860S-Channel** Fixed Stereo Modulator
- L860** Bi-Directional Launch Amplifier