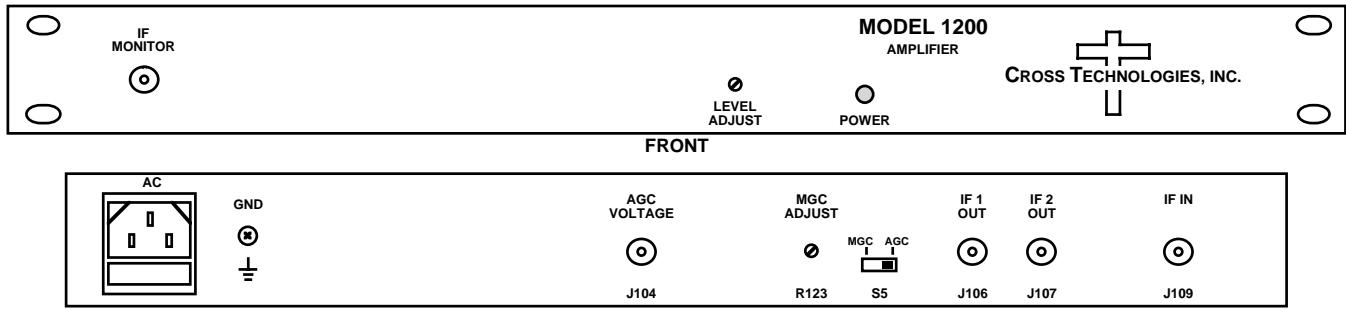


**1200-08 IF AGC Amplifier**

The 1200-08 IF Amplifier provides automatic gain control (AGC) for a 50 to 200 MHz IF signal. It takes a -35 to 0 dBm input signal and automatically adjusts the gain for a 0 to +10 dBm ( $\pm 1$  dB) output which can be adjusted using the front panel potentiometer. The 1200-08 has a band limiting lowpass filter. It also has capabilities to switch between automatic gain control (AGC) or manual gain control (MGC). A potentiometer on the rear panel allows for manual gain adjustment when in MGC mode. The 1200-08 is powered by a 90-260 VAC switching power supply and is housed in a 1RU x 14" deep chassis.



**Front and Rear Panels**

**EQUIPMENT SPECIFICATIONS\***

**Input Characteristics**

Impedance 50Ω or 75Ω  
 Return Loss 14 dB  
 Frequency 50 to 200 MHz  
 Input Level range -35 to 0 dBm  
 Input 1 dB comp. +5 dBm @ min gain

**Output Characteristics**

Impedance 50Ω or 75Ω  
 Return Loss 14 dB  
 Output Level 0 to +10 dBm  
 Output 1 dB comp. +15 dBm

**Channel Characteristics**

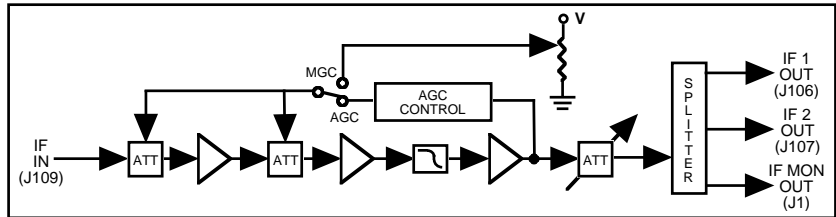
Gain 0 to +45 dB (AGC)  
 Frequency Response  $\pm 1.0$  dB, 50-200 MHz;  $\pm 0.5$  dB,  $\pm 20$  MHz  
 Group Delay, max  $\pm 2$  ns, max 50 to 200 MHz

**Controls/Indicators**

AGC/MGC Switch Switches between Manual (MGC) or Automatic (AGC) Gain control  
 Level Adjust Potentiometer that adjusts output level in AGC mode  
 MGC Adjust Potentiometer that adjusts manual gain in MGC mode  
 AGC Voltage Allows for monitoring of the AGC gain (BNC female connector)  
 Power Green LED

**Other**

IF Connectors BNC (female)  
 Size 19 inch standard 1RU chassis 1.75"high X 14.0" deep  
 Power 90-260 VAC, 47-63 Hz, 30 W max



**Block Diagram**

\*+10°C to +40°C; 2000 meters max elevation; 80% max humidity; Specifications subject to change without notice