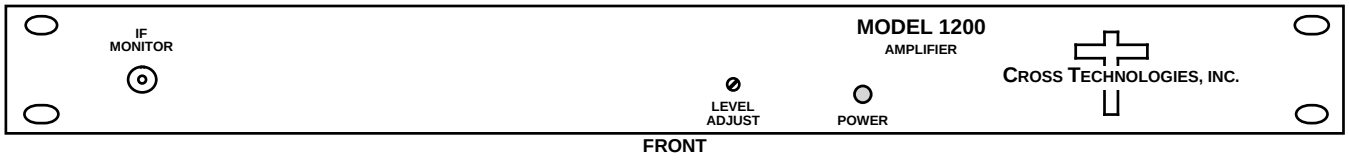
CROSS TECHNOLOGIES, INC.

DATA SHEET
Rev.B
2/6/2007

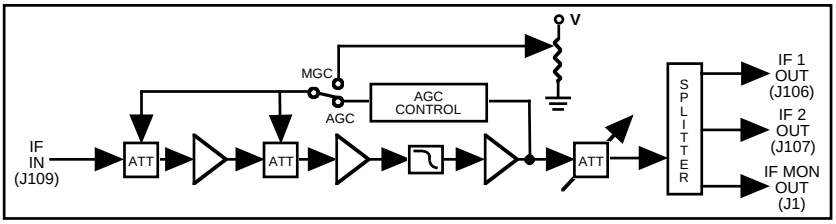
1200-08 IF AGC Amplifier

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 (± 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*



Block Diagram

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	±1.0 dB, 50-200 MHz; ±0.5 dB, ± 20 MHz
Group Delay, max	±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	100-240± 10% VAC, 47-63 Hz, 30 W max

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

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