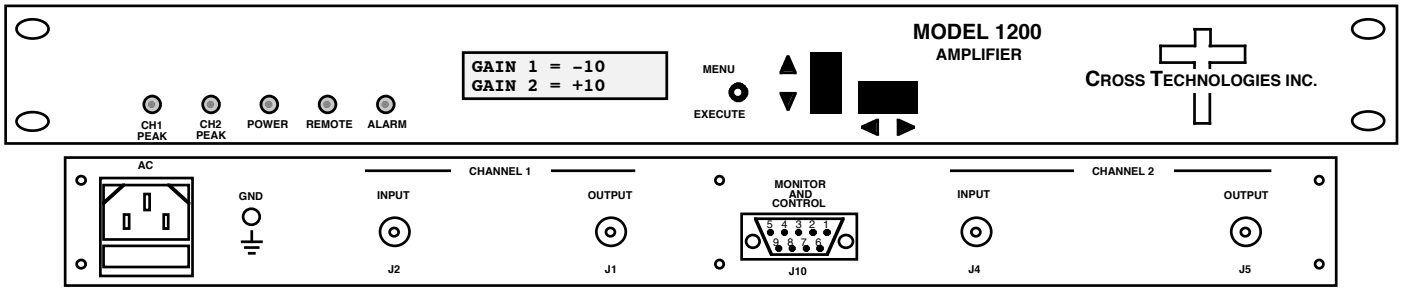
CROSS TECHNOLOGIES, INC.

DATA SHEET

3/15/2007

1200-88 IF Amplifier

The 1200-88 IF Amplifier is a dual channel amplifier each providing manual gain control (MGC) for a 0.1 to 100 MHz IF signal for a -50 to 0 dBm input signal. The gain can be manually adjusted from -25 to +25 dB for up to a +10 dBm output. The 1200-88 has a band limiting lowpass filter. Multi-function push button switches select the gain of each channel (-25 to +25 dB, selectable in 1 dB steps) and the settings appear on the LCD display. Front panel LEDs light when DC power is applied (green) or the output level exceeds +13 dBm (red). Connectors are BNC female for IF input and output. A DB9 connector provides indication and remote control of gain via a 9600 baud, RS232C interface. The 1200-88 is powered by a 90-260 VAC switching power supply and is housed in a 1RU x 16" deep chassis.



Front and Rear Panels

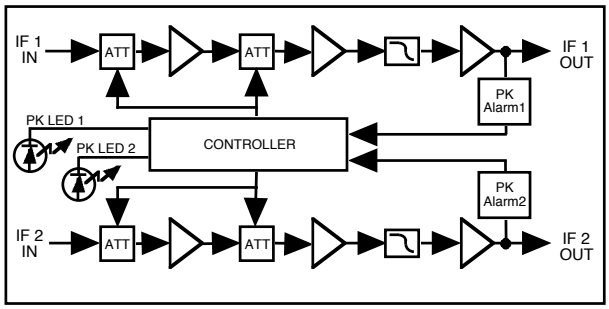
EQUIPMENT SPECIFICATIONS (each amp)*

Input Characteristics

Impedance	50Ω
Return Loss	14 dB
Frequency	0.1 to 100 MHz
Input Level range	-50 to 0 dBm
Input 1 dB comp.	+5 dBm @ min gain

Output Characteristics

Impedance	50Ω
Return Loss	14 dB
Output Level	+10 dBm, max.
Output 1 dB comp.	+15 dBm



Block Diagram

Channel Characteristics

Gain	-25 to +25 dB (Front Panel Adjustable)
Frequency Response	±1.0 dB, 0.1-100 MHz; ±0.5 dB, any 20 MHz segment
Group Delay, max	±2 ns, max 0.1 to 100 MHz

Controls/Indicators

Level Adjust	pushbutton switches or REMOTE; setting shown on LCD display; Set to -25 to +25 dB (+10 dBm max out)
Level Peak	Red LED lights when output level exceeds +13 dBm
Power, Remote, Alarm	Green LED, Yellow LED, Red LED

Other

IF Connectors	BNC (female)
Alarm/Control Connector	DB9 - NO or NC contact closure on Alarm; M&C 9600 Baud, RS232C
Size	19 inch standard 1RU chassis 1.75"high X 14.0" deep
Power	90-260 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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