CROSS TECHNOLOGIES. INC.

DATA SHEET

10/9/06

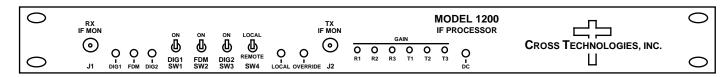
DIG1 X OUT (J106) FDN X OUT (J107) DIG2 (J108)

1200-03 IF Processor

The 1200-03 IF Processor consists of a transmit and receive side. The receive side consists of one IF signal passing through an Automatic Gain Control (AGC) amplifier and then split into three output signals each having variable attenuators to adjust their levels via front panel multi-turn potentiometers. The AGC amplifier adjusts a -80 to 0 dBm, 50 to 90 MHz IF input signal to a -35 dBm ± 10 dB output. A front panel output port provides a monitor signal directly out of the AGC amplifier, and front panel potentiometers adjust the attenuation (between 0 and 30 dB) to each of the three output signals, DIG1RX, FDMRX, and DIG2RX.

The transmit side consists of three transmit IF signals combined into one. DIG1TX, FDMTX, and DIG2TX signals each pass through individual attenuators controlled via front panel potentiometers and a switch that is controlled remotely through a DB9 connector or locally with three SPDT switches located on the front panel. A SPDT switch on the front panel selects either REMOTE or LOCAL operation. A local override feature is included such that when the REMOTE/LOCAL switch is left in the LOCAL position, the override pin on the DB9 can be set to override the LOCAL control and allow for REMOTE control.

DIG1 and DIG2 on both transmit and receive sides are 75Ω in/out while FDM on both transmit and receive sides are 50Ω in/out. When power is removed from the 1200-03, the FDM TX and FDMRX signals pass through to the output. IF connectors are BNC female. The 1200-03 is housed in a 1RU x 14" deep chassis and powered by a 100-240 ± 10% VAC, 47-63 HZ input power supply.



EQUIPMENT SPECIFICATIONS*

RX Input Characteristics

TA Input Characteristic	,3		
Impedance/RL Frequency Level range 1dB compression	50Ω/18 dB 50 to 90 MHz 0 to -80dBm +5dBm	IF MON	CONTROL
RX Output Characterist Output Impedance/RL Monitor/AGC Out Level Level Range	t <u>ics</u> 50Ω,75Ω /18 dB -35 ± 10 dBm -35 to -65 dBm		
RX Channel Characteria Gain, AGC Gain adjustment Frequency Response	<u>stics</u> -35 to +35 dB 0 to -30 dB ± 1.0 dB		
TX Input Characteristic Input Impedance/RL Frequency Level range	<u>s</u> 50Ω,75Ω /18 dB 50 to 90 MHz -20 to +5 dBm		
TX Output Characterist Impedance/RL	<u>ics</u> 50Ω/18 dB	<u>B</u>	lock Diagram
Level range 1 dB compression	+5 to -20 dBm +10dBm	Controls/Indicators DIG1TX.FDMTX.DIG2TX	Green LEDs and SPDT switches
TX Channel Characteris Gain adjustment Frequency Response Group Delay, max	<u>stics</u> 0 to -30 dB ± 1.0 dB ± 5 ns, max	LOCAL/REMOTE OVERRIDE POWER	Red LED and SPDT switch Yellow LED Green LED
TX Switch Characterist Isolation, Switch off Isolation, Port to Port	<u>ics</u> ≥ 60dB ≥ 50dB, all "ON"	<u>Other</u> IF Connectors Connector, DC, Control Size,	BNC (female) DB9 (female) 19 inch 1RU chassis X 14.0" deep
Switch time	≤10 milliseconds	Power	100-240 ± 10% VAC, 47-63Hz, 30

Front Panel

on, Switch off	≥ 60dB	Connector, DC, Control	DB9 (female)
on, Port to Port	≥ 50dB, all "ON"	Size,	19 inch 1RU chassis X 14.0" deep
n time	≤10 milliseconds	Power	100-240 ± 10% VAC, 47-63Hz, 30 watts max

*10°C to 40°C; Specifications subject to change without notice

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