

1203C-MC Broadband RF Distribution With Remote Monitor and Control Interface

- Input Frequencies 500kHz to 50MHz (Optional 1kHz to 20MHz)
- 12 Broadband Outputs*^{note 1}
- Low Additive Phase Noise
- Isolation (>100dB typical)
- Remote Monitoring of RMS Output Levels
- Remote Selection of Active Outputs
- Dual Input with Auto Switch Option
- Low Cost
- Convenient 1U, 19" rack mount package

Building on the success of the ptf 1203C Broadband RF Distribution amplifier, the ptf 1203C-MC provides high performance distribution of frequency references enhanced with a full remote monitor and control interface.

With the added monitor and control, a remote user can easily monitor status of each of the inputs/outputs of the unit on either RS232 or Ethernet with Telnet, web browser and SNMP interfaces. Optionally the unit can take two separate inputs into an input switch with either fully automatic or manual control.

For added flexibility, individual outputs can be enabled/disabled via remote control so that unused outputs are isolated from the alarm system.

Input and output status is immediately evident from front panel indicators of each channel. Also auto/manual selection of the auto switched input is available from the front panel key pad.

In most applications the phase noise capability of the unit will outperform the input signal performance to such a degree that no additive phase noise will be noticeable on the outputs.

Isolation output to output is >100 dB and harmonics are <-40 dB. The unit provides a fixed gain of 1, and all outputs are provided on convenient BNC connectors. Outputs provide up to 13dBm into a 50 ohm load.



Specifications subject to change without notice Rev D

Specifications

Electrical

RF Output (twelve)			
Frequency Range	500kHz to 50MHz	Additive SSB Phase Noise @ 10MHz	
Same as input	(opt. 1kHz-20 MHz)	(1 Hz Bandwidth) Offset from carrier	
Level	1V rms (13dbm)	1 Hz	-132 dB
Harmonic Distortion	<-45 dB	10 Hz	-150 dB
Non-Harmonic Signals	<-80 dB	100 Hz	-160 dB
Load Impedance	50 ohm	1,000 Hz	-165 dB
Isolation	>90 dB	10,000 Hz	-165 dB
Isolation alternating channels	>100dB		
Connectors	BNC	RF Inputs	
		Frequency Range	500kHz to 50MHz
			(opt. 1 kHz-20 MHz)
Controls & Indicators		Level	1 V rms (nominal)
Each Channel	Green/Red LED, Healthy/Fault	Alarm Output	Summary alarm indicates failure of any output signal
Input	Manual/Auto Red LED (manual)	Non-alarm condition:	Relay energized (fail safe)
Keypad	Manual/Auto Channel (A/B)	Connector:	9 pin D-male
Ethernet	RJ 45, Front Panel		
RS232	DB9 (Rear panel)		

Protocols(Ethernet)

Telnet
SNMP
Web Browser

Environmental & Physical

Color Grey
Temperature: 0° to 55° C

Relative Humidity: 0 to 95%, non-condensing
Power Requirements
AC Input ($\pm 15\%$) 90 - 264 VAC, <10W
DC Input (optional)
Redundant power input optional
Dimensions (HxWxD): 1U x 19" x 16"

*Note 1: 10 outputs available with redundant power option

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50L Audubon Road, Wakefield, MA 01880, USA
Tel: (+1) 781 245 9090 Fax: (+1) 781 245 9099 www.ptfinc.com