

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

- Input Frequencies 500kHz to 50MHz
- 12 Broadband Outputs
- 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 not only the high performance distribution of frequency references, but enhances this 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

Electrical

RF Output (twelve)	
Frequency Range	500kHz to 50MHz
Broadband	outputs
1	kHz - 20 MHz
(optional)	
Level	1V rms (nominal)
Harmonic Distortion	<-40 dB
Non-Harmonic Signals	<-80 dB
Load Impedance	50W
Isolation	>90 dB*
Connectors	BNC

*Isolation alternating channels >100dB, up to 30MHz

Additive SSB Phase Noise	
(1 Hz Bandwidth) Offset from carrier	
1 Hz	-132 dB
10 Hz	-150 dB
100 Hz	-160 dB
1,000 Hz	-165 dB
10,000 Hz	-165 dB

RF Inputs	
Frequency Range	500kHz to 50MHz
	1 kHz - 20 MHz (optional)
Level	1 V rms (nominal)
Alarm Output	Summary alarm
	indicates failure of
	any output signal
Non-alarm condition:	Relay energized
	(fail safe)
Connector:	9 pin D-male

Controls & Indicators	
Each Channel	Green/Red LED,
	Healthy/Fault
Input	Manual/Auto
	Red LED(manual)
Keypad	Manual/Auto
Channel	(A/B)
Ethernet	RJ 45, Front Panel
RS232	DB9 (Rear panel)

Protocols(Ethernet)

- Telnet
- SNMP
- Web Browser

Environmental & Physical

Temperature:	0° to 55° C
Relative Humidity:	0 to 95%, non-condensing
Power Requirements	
AC Input (±15%)	90 - 264 VAC, <10W
DC Input (optional)	
Dimensions (HxWxD):	1U x 19" x 16"

Specifications subject to change without notice