



ptf

96000XL TIMS

TIME INTERVAL MEASUREMENT SYSTEM

Resolution to 10-14(10 sec.tau)

10-13 Noise floor @ 10 secs.

Expandable to 12+ channels

Wide input range (<1MHz to 100MHz)

Reference input feed-thru for multiple units

Data formatted for industry standard Stable32

Selectable IP addresses, gateway, netmask

Ethernet and RS232 communications



The ptf 96000XL TIMS (Time Interval Measurement System) is designed for precise time interval measurements to give frequency offset and stability information on a range of different frequency sources.

The system uses a precision, direct digital synthesizer (DDS) and RF mixer to generate a (selectable) beat signal between the reference input and the unit under test (UUT).

Phase difference taken at the selected time interval (selectable by channel) is precisely measured by means of a 32 bit counter and reported on a channel by channel basis.

The architecture of the unit is designed to enable simple expandability up to 12 channels in one 2U package, with additional expandability in blocks of up to 12 channels by adding additional 2U packages. With the built in Ethernet port, IP addresses can be assigned to individual units, making data handling a simple exercise.

Data is formatted to import directly into the industry standard Stable32 frequency measurement application.

The unit can be configured for either front or rear entry of the frequency inputs.

Specifications subject to change without notice



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SPECIFICATIONS

Electrical

Inputs

Reference
 RF Input 10MHz
 13 dBm max, 0dBm min
 (optional 1MHz, 5MHz avail.)

Unit Under Test(UUT)

RF Input <1MHz to 50MHz sine wave
 13 dBm max, 0 dBm min.

Number of Channels/ Unit up to 12
 (further expandable by adding additional units)

Data Outputs (selectable)

Ethernet Telnet (port 23)
 RS232 Baud rate selectable
 Format ASCII
 (Compatible with Stable32)

Alarms/Indicators

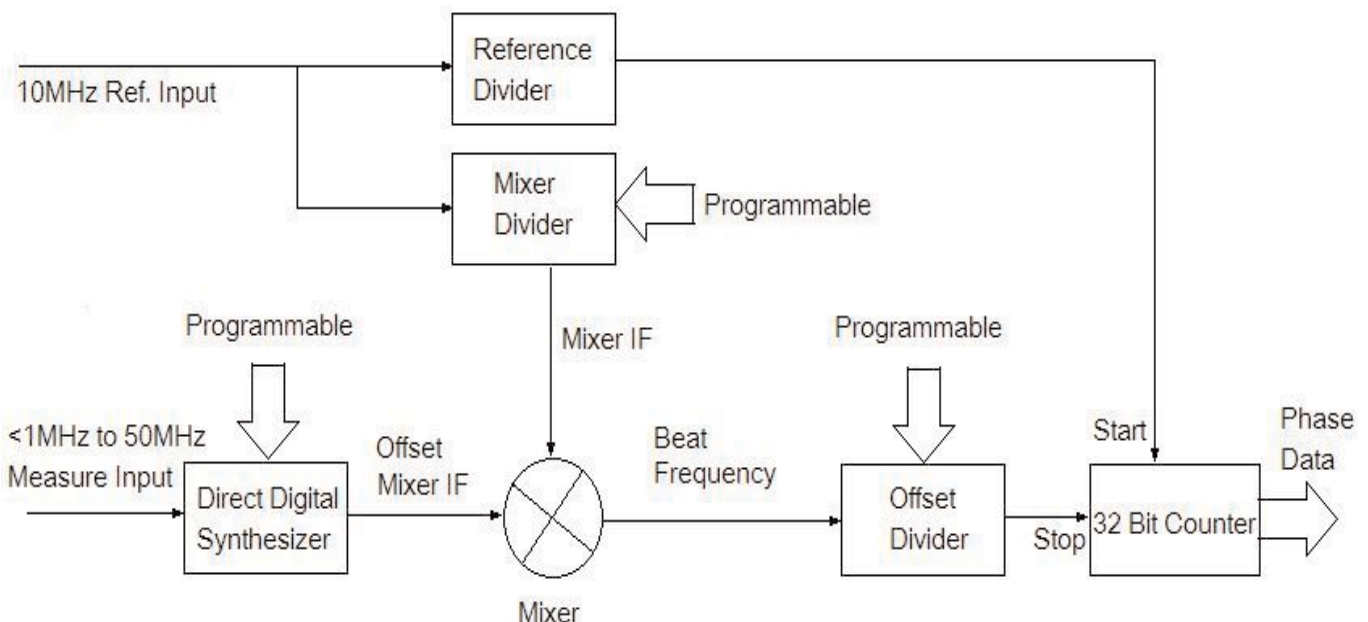
Power Green LED
 Reference Input present LED
 Channels Input present LED
 Measurement in progress LED

Control/Monitor Features

Ethernet Telnet
 RS 232 Console interface

Environmental/Physical

Power Requirements 100 to 260VAC
 <10W
 Dimensions 2U x 19" x 12"
 Operating Temp. 0 to 50 deg. C
 Relative Humidity 0-95% (non-cond.)



ptf 9600XL Time Interval Measurement System - Block Schematic

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