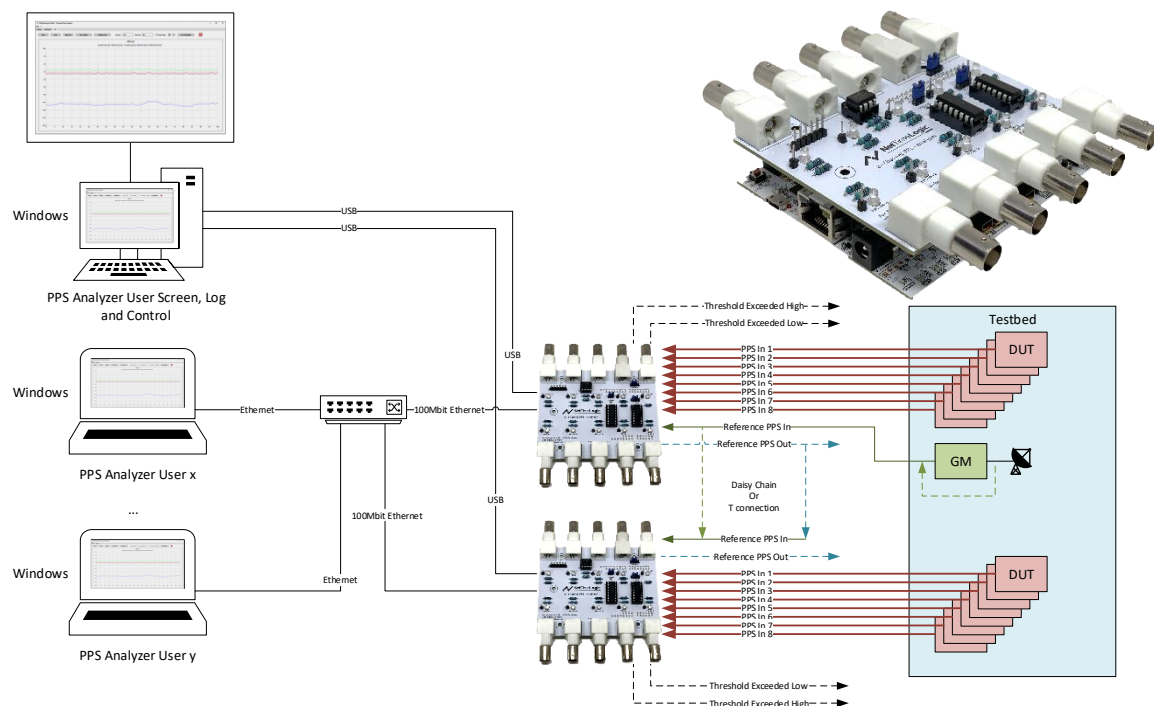


Key Features:

- ## Typical Applications:

- ## System Architecture:



Specification:

Interfaces	8 PPS inputs per analyzer, 1 PPS output per analyzer 1 reference PPS input per analyzer, 2 Configurable threshold signals to alarm when the offset exceeds a defined range UART or Ethernet connection
Measurement	Offset in nanoseconds of input PPS against reference PPS
Features	Long term measurements (up to 100000 seconds with sliding screen window) Enable, disable, rename individual PPS Save screen as PNG, TIFF or BMP Log values as CSV (infinite) Min, Max, Mean and Standard Deviation calculation Python Script for measurements from a script or custom measurements
Accuracy	Timestamp resolution is 1ns with TDC Individual Delay compensation per PPS (for cable length diffs) EEPROM for Buffer delay compensation PPS compensated for synchronization error introduced by the reference PPS
Modularity	Multiple Analyzers supported (in the same Screen) Multi User capable (Ethernet only) Self-discovery of all Analyzers Can be cascaded or parallel feed with the same reference PPS

Deliverables:

- Arduino Shield
- FPGA Bitstream for the Digilent ArtyA7-35T, A7-100T or ArtyS7-50
- Windows Application (Open Source)
- Python Script

Related Products:

- | | |
|----------------------|----------------------|
| • PTP OC/TC/HC/GM/SO | • Adjustable Clock |
| • NTP Server | • Signal Timestamper |
| • PPS Master/Slave | • Signal Generator |



NetTimeLogic GmbH
Synchronization Solutions

Strassburgstrasse 10
8004 Zürich
Switzerland

contact@nettimelogic.com
Tel. +41796716211
www.nettimelogic.com