High performance NTP Server

28. September 2021

NetTimeLogic extended its portfolio of products with a long awaited high performance (S)NTP Server!
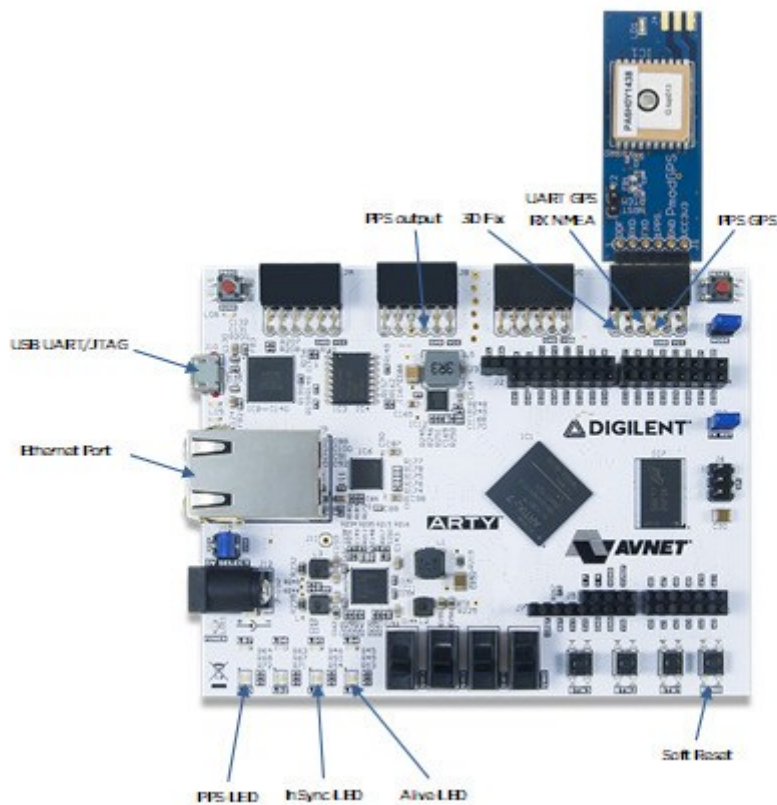
It is a SNTP Server according to RFC 4330/5905 (NTPv4) and completly handling NTP requests in the FPGA. This gives an unprecedented performance of 100k+ requests/s (~500k) with minimal resource usage and a best in class requests/watt and requests/money rate. It allows to completly offload the NTP Server functionality to the FPGA, meaning it does not need a CPU or NTP Stack at all.

Here you can see the synchronization accuracy of a SNTP client to our server

Here you can see our Server under heavy load (100k requests per second)

https://www.nettimelogic.com/ntp-server.php

Btw this is the reference design hardware we use (~250$)

Testsetup