

Release Notes for the PicoDigitizer125 2nd Generation Software Tools

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1 PicoDigitizer125 2nd Generation Tools 1.0

1.1 General

New

- ✓ PicoDigitizer125 2nd Generation standalone installer for Windows and Linux

1.2 FPGA BSDK

New

- ✓ Support of Xilinx ISE 14.7
- ✓ Support of the following major FPGA IP cores for Perseus601x and Perseus611x
 - RTDEx
 - RTDExSync
 - Timestamp
 - Record/Playback
 - MI125
 - Custom Registers
- ✓ Set of FPGA reference designs that demonstrate how to use Nutaq's FPGA IP cores together

1.3 FPGA MBDK

New

- ✓ Support of MATLAB 2013B
- ✓ Automatic compilation flow that allows designing *and* generating FPGA designs entirely from System Generator
- ✓ In System Generator, support of the following major cores for Perseus601x and Perseus611x (MBDK blocks)
 - RTDEx
 - RTDExSync
 - Timestamp
 - Record/Playback
 - MI125
 - Custom Registers
- ✓ Set of MBDK reference designs that demonstrate how to use Nutaq's MBDK blocks together

1.4 Host BSDK

New

- ✓ Support of Visual Studio 2012
- ✓ Host Libraries (*EAPI*)
- ✓ Host Applications (*tools*) built on top of the EAPI
- ✓ Host examples that demonstrate how to use host applications tools and to interact with the FPGA reference designs
- ✓ Command Line Interface (CLI) for updating and monitoring the PicoSDR firmware
- ✓ Matlab scripts/tools to be used conjointly with host examples

1.5 Documentation

New

System

- ✓ PicoDigitizer125 - 2nd Generation Quick Start Guide
- ✓ PicoDigitizer125 - 2nd Generation User's Guide
- ✓ PicoDigitizer125 - 2nd Generation Software Tools Installation Guide
- ✓ PicoDigitizer125 - 2nd Generation Software Tools Release Notes

Application Notes

- ✓ App Note - Configuring the Perseus IP address
- ✓ App Note - Parsing and Creating Configuration Files
- ✓ App Note - Perseus Firmware Update
- ✓ App Note - Perseus MBDK Guide
- ✓ App Note - Using PCI Express
- ✓ Board & Systems Software Tools - Command Line Interface API

FPGA Carrier Guides

- ✓ Perseus Programmer's Reference Guide
- ✓ Perseus601x User's Guide
- ✓ Perseus611x User's Guide

FMC Guides

- ✓ MI125 Programmer's Reference Guide
- ✓ MI125 User's Guide

Core Guides

- ✓ Aurora Examples Guide
- ✓ Aurora Programmer's Reference Guide
- ✓ PPS Sync Programmer's Reference Guide
- ✓ Record Playback Programmer's Reference Guide
- ✓ RTDEx and Record Playback Examples Guide
- ✓ RTDEx Programmer's Reference Guide
- ✓ RTDExSync Programmer's Reference Guide
- ✓ Timestamp Programmer's Reference Guide