

Stream400 Recorder /Playback System



Introduction

Stream400 is a turn-key IF record and playback system ideal for Radar, Software Radio, Spectrum Monitoring etc. applications.

It is based on 10+ years of experience in data recording technology, and its key focus is on data continuity, signal fidelity and system quality. This system has passed stringent acceptance test and provides user with a high fidelity signal acquisition system.

Leveraging high quality and comprehensive signal acquisition products, Stream series offers customers a complete series of turn-key solutions for different sampling rate, channel count and resolution requirements.

In Stream400, it supports wide-band Digital Down Conversion in FPGA. The signal bandwidth can be from 3.125KHz to 160MHz. The data are saved in either real or complex I/Q format.

The Recording/Playback parameters are configured through .ini script file. The recording are recorded into multiple data files with recording parameters being saved in a log file for future reference. All the data recorded are guaranteed no data loss.

Applications

- Wide band Radar
- Software Defined Radio and SatCom
- Spectrum Monitoring

Features and Specifications of Record

- 2Ch 400MHz 14bit ADC
- (option) 2Ch 500MHz 12bit ADC
- 2Ch wide-band Digital Down Convert, BW = 3.125KHz to 160MHz
- Supports Real and Complex Recording Mode
- Windows OS
- Access to data files through Samba Server

Features and Specifications of Playback

- 800MHz 16bit DAC w/ Interpolate =4
- 200MS/s real or complex data rate
- Playback in 1Ch Complex or 2Ch Real Mode
- 1Ch DUC with interpolation(2 to 64K) with programmable IF output frequency
- Bandwidth from 3.125Khz to 160MHz
- Output IF up to 400MHz

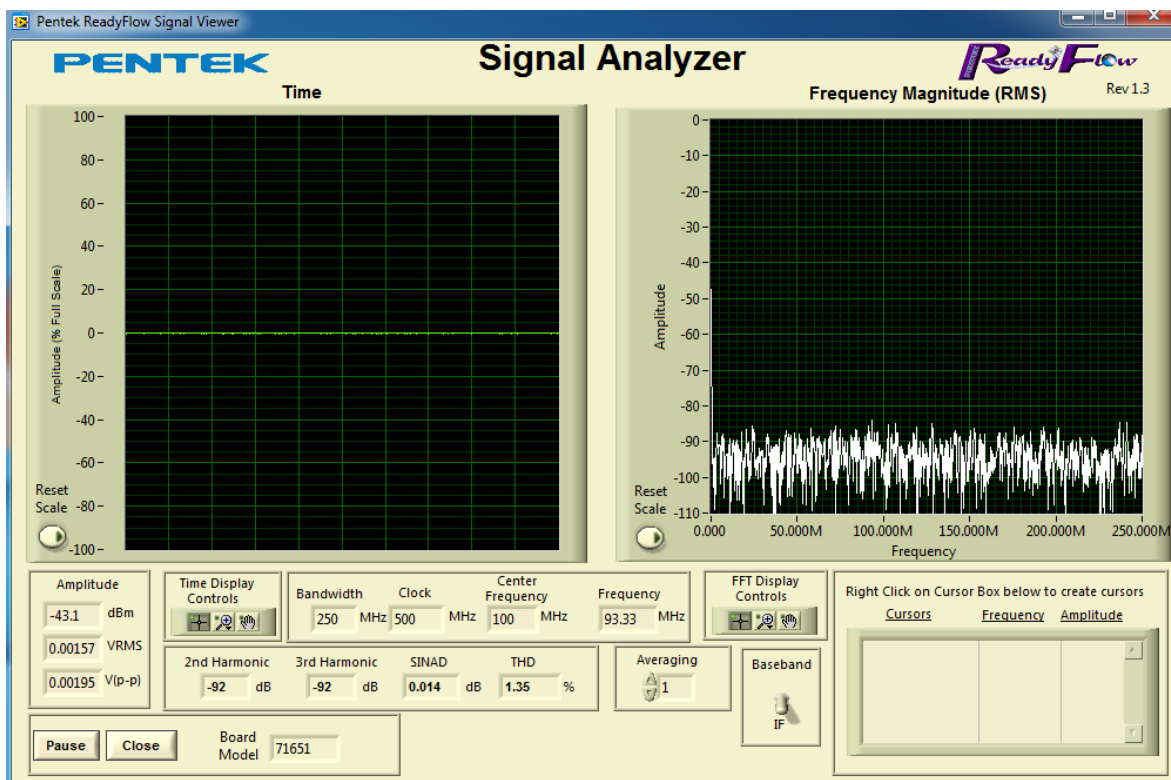


Figure 1: 500MS/s sampling in real mode, clean noise floor.

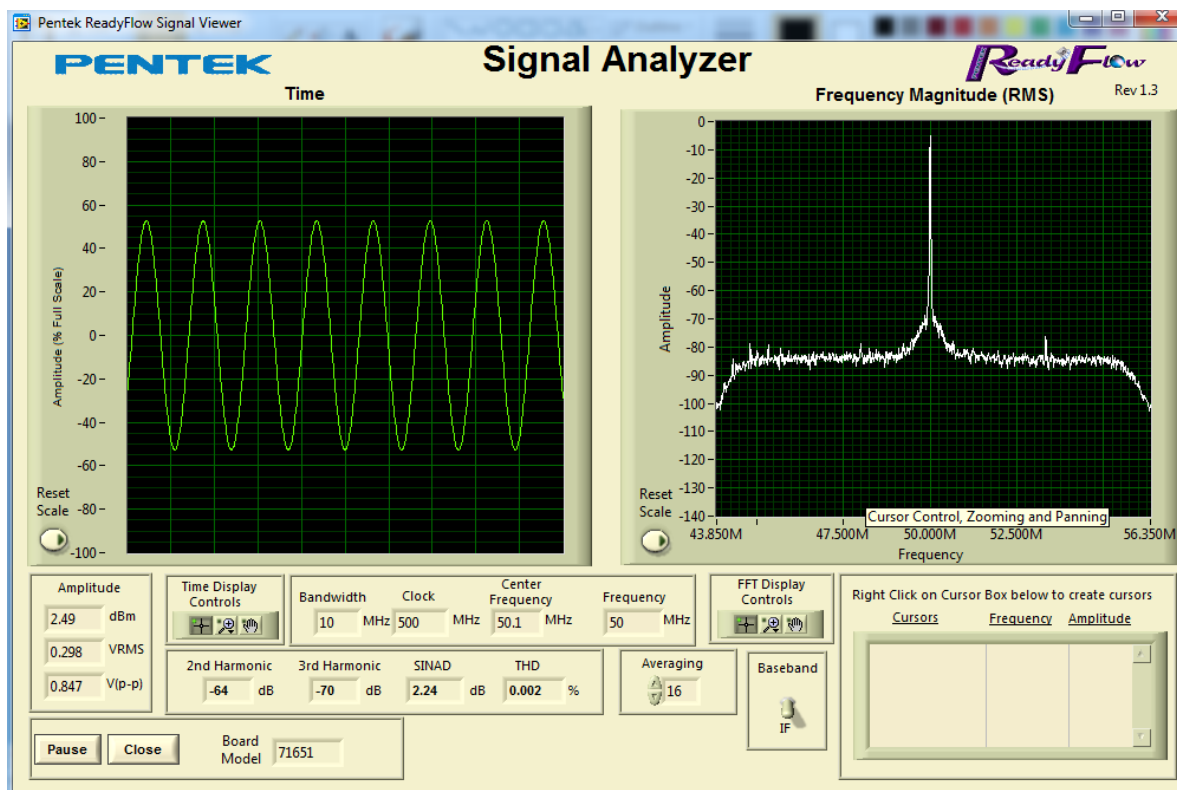


Figure 2: Tune to 50MHz IF, 10MHz BW.

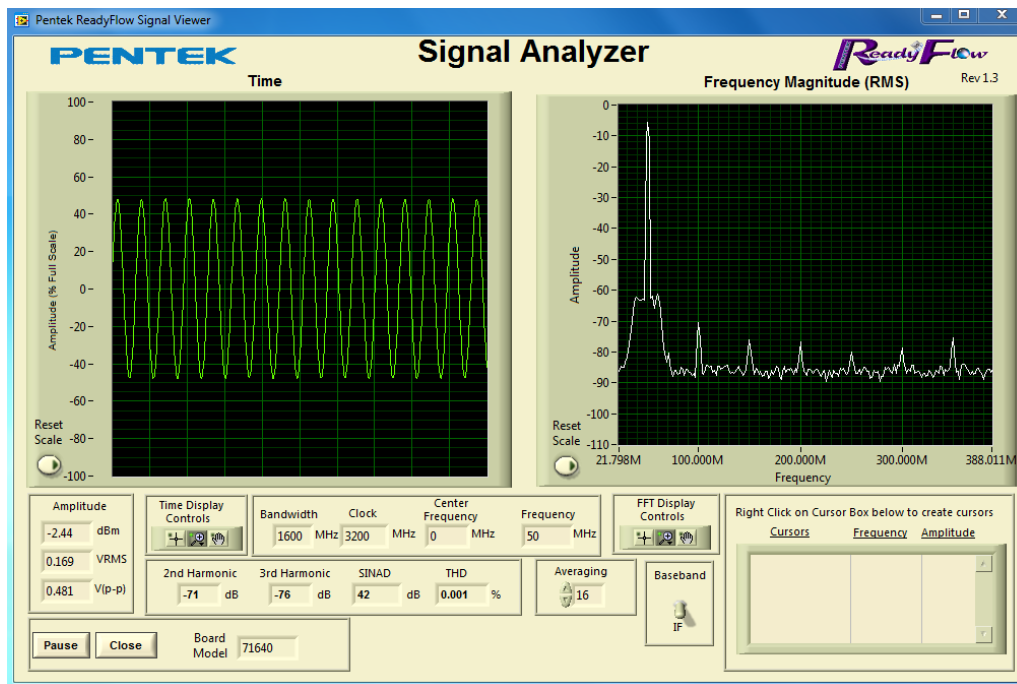


Figure 3: Playback Waveform at 50MHz(with Band Pass Filter)

Order Information

Model No.	Specifications
Streaming400	400MHz 14bit Recorder, support DDC - 2Ch Recording. - 2Ch 400MSps Playback in Real/1Ch playback in Complex
Streaming500	500MHz 12bit Recorder, support DDC - 2Ch Recording. - 2Ch 500MSps Playback in Real/1Ch playback in Complex
Opt 702	Extended Temperature Range
Opt 720	Conformal Coating
Opt 028	28V DC
Opt 015	15TB SSD
Opt 030	30TB SSD
Opt 060	60TB SSD

Environmental Specifications (Designed to Meet):

Temperature(Op): 0degC to 60degC

(with option 702)

Temperature(Non-Op): -40degC to 85degC

Humidity(Op): 0 to 95%, non-condensing.
(with option 720)

Shock(Op): 15g max(11ms, half sine wave).

Vibration(Op): 10 to 20 Hz: 0.02 inch peak,
20 to 500 Hz: 1.4 g peak acceleration.

Physical Specifications:

Dimension: 4U(H) x 19"(W) x 515mm(D).

Weight: approximate 17.5kg.

Power Input: 100 to 240 VAC, 50 to 60 Hz, 650 W max.

Opt 028, 28V DC Input, 500Watt.

For product, pricing or demo request, please contact:

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