

Stream6400, Data Recorder and Playback System

Key Features and Specifications

- 1Ch 12bit 6.4GS/s ADC
- 2Ch 12bit 3.2GS/s ADC with DDC
- 1Ch 14bit 6.4GS/s DAC with DUC
- 2Ch 14bit 3.2GS/s DAC with DUC
- 1Ch Recording at 3,000MHz maximum bandwidth (8bit real mode)
- 2Ch Recording at 600MHz bandwidth each(I/Q)
- 1Ch Playback at 1,600MHz bandwidth(8bit real mode)
- 1Ch Playback at 600MHz bandwidth(I/Q)
- Arbitrary Waveform Generation
- Continuous Recording and Continuous Playback
- Recording into Data Storage for long duration
- Windows OS
- Recorded into multiple files with time-stamp, and accessible by network



Introduction

Stream6400 is a turn-key wide-band signal Recorder and Playback System. It can continuously record 2 channels of 600MHz bandwidth each in DDC mode (I/Q format), and playback 1 channels of 600MHz bandwidth DUC mode (I/Q format). Table 1 & Table 2 details the supported working mode and bandwidth.

It supports arbitrary waveform generation. It can read waveform data which are designed by user, and send to Stream6400 for long duration playback.

Stream6400 works in Continuous Recording or Playback Mode. The data are acquired and stored in SSD in real-time and guarantees no sample loss. The Recording supports time-stamp capability and recorded into multiple files.

Stream6400 is configured through an .ini text file for different parameters and settings. During Recording, the signals may be sent to SignalViewers for quick view.

The Stream6400 is fully tested for UWB Radar, or wide-band satellite communication etc. applications.

Stream6400 can optionally (option 300) support simultaneous Transmit and Receive operation. Contact us for details.

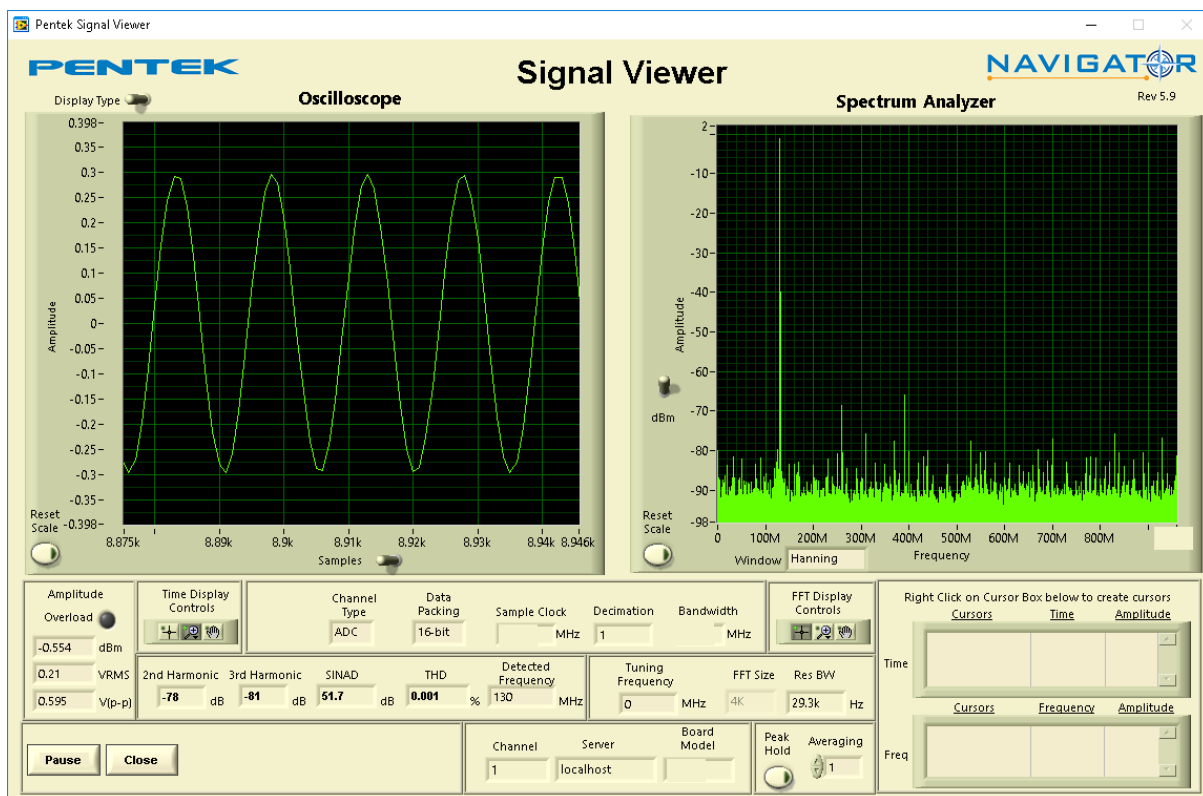


Fig 1: Signal Viewer in ADC mode

Table 1, Stream6400 Recording Mode

Recording Mode		Max Instant Bandwidth
1Ch Recording	8bit packed real, FS=1,600MHz to 6,000MHz	3,000MHz
	16bit packed real, FS=1,600MHz to 3,000MHz	1,500MHz
2Ch Recording	8bit packed real, FS=800MHz to 3,000MHz	1,500MHz
	16bit packed real, FS=800MHz to 1,500MHz	750MHz
	16bit packed complex DDC, FS = 800MHz to 3,200MHz (decim = 4)	600MHz
	16bit packed complex DDC, FS = 800MHz to 3,200MHz (decim = 8 or 16)	320MHz or 160MHz

Table 2, Stream6400 Playback Mode		Max Instant Bandwidth
1Ch Playback	8bit packed real, FS=1600MHz to 3,200MHz	1,600MHz
	16bit packed real, FS=800MHz to 1,600MHz	800MHz
	16bit packed complex DUC, FS = 1,600MHz to 3,200MHz (Interpolate = 4)	640MHz
	16bit packed complex DUC, FS = 1,600MHz to 3,200MHz, and 5,240MHz to 6,400Mhz (Interpolate = 8)	640MHz
2Ch Playback	16bit packed real, FS = 800MHz to 1,200Mhz (interpolate = 1)	600MHz
	16bit packed complex DUC, FS = 1,200Mhz to 3,200MHz (interpolate = 6)	420MHz
	16bit packed complex DUC, FS = 1,600Mhz to 3,200MHz (interpolate = 8)	640Mhz

Environmental Specifications (Designed to Meet):

Temperature(Op): 0degC to +55degC

(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: 427.5(W) x 520(D) x 177(H) mm

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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Order Options

Stream6400

- Option 102, 2Ch Recording
- Option 202, 2Ch Playback
- Option 702, Ext Temp
- Option 720, Conformal Coating
- Option 028, 28V DC Input.
- Option 015, 15TB SSD
- Option 030, 30TB SSD
- Option 060, 60TB SSD