Digital Signal Processing

GIGA SAMPLER

Features

- **Wide variation of sampling module** from 16Gsps x 3bit to 2Gsps x 12bit.
- **Reduce system cost** by RF Direct sampling up to 26GHz. No need of frequency conversion.
- Signal processing for: **fourier transform, frequency conversion, filter, correlator, demodulation** etc.
- FPGA signal processing can be developed by user.
- You can do signal processing using Compact Sampler by transferring the sampling data via optical fiber to the Sampler with signal processor.
- Optional **Web-base GUI software** made possible the integrative control of signal analysis solution, such as data-recorder and sampler, via Web browser.

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OCTAFIS
OCTA Family Integrated Software

**System**
- Equipment
- Administrator
- Control/ Monitor
  - OCTA_Sample
  - OCTAVIA_Stand
  - OCTAVIA_List
  - OCTAVIA_Stand
  - OCTA_Sample
  - OCTA_Sample

**Data Output**
- 1/10/40/100Gbit Ethernet
- Compatible with a wide variety of stream protocol

**Integrated GUI Software**
- Integrated device control such as sampler, data recorder and correlator
- Displays recorded data spectrum and quantization bit distribution

**General**
- Sampler (with Signal Processing) 4U EIA19inch rack
- Sampler (without Signal Processing) 1U EIA19inch rack
- AC100 to 240V

Integrated GUI Software Data Analysis (option)

**Applications**
- Sampler (with Signal Processing)
- Data Recorder
- Transportation
- Data Recorder
- Correlator
- Compact Sampler (without Signal Processing)

Sampling Module
- 2Gsps×12bit BW18GHz
- 4Gsps×10bit BW18GHz
- 10Gsps×4bit BW18GHz
- 16Gsps×3bit BW26GHz

Signal Processing
- Fourier transform (window function: hanning/blackman/user custom)
- Frequency conversion and filter (Digital Baseband Converter)
- Correlator (auto/cross/delay compensation/fringe rotation/fractional delay [ΔW])

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The products and the services introduced in this brochure are subject to the change of specification or out of service without notice. Please confirm with us by requesting the latest specification documents.

Elecs Industry Co., Ltd.
1-22-23 Shinsaku, Takatsu-ku, Kawasaki-City, Kanagawa, Japan
Phone: 81-44-854-8281
Contact: Harada harada@elecs.co.jp
www.elecs.co.jp