

TRIASYS
TECHNOLOGIES
CORPORATION

Portable Signals Acquisition and Analysis System

Key Features

NEW

Widescreen Toughbook Laptop Running Windows 7 and Transit Case with handle and wheels for easy transport

Seamlessly integrates SigDig digitizer and SignalWorks® signals analysis software

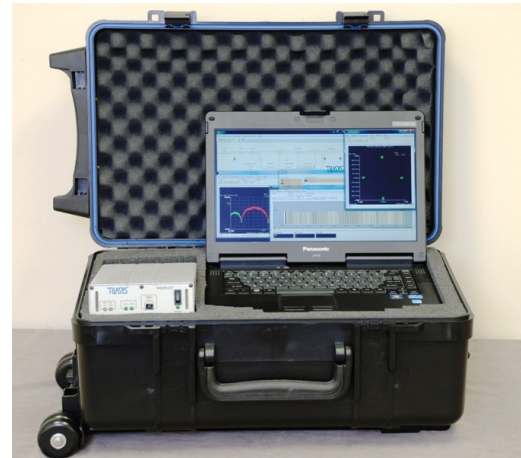
Works with your antenna and receiver to cover communication signals from HF to Microwave

20 seconds storage of 80 MHz bandwidth signal

Real time continuous collection and demodulation of supported narrow band signals – produces readable text for selected formats

Compact & Portable - Entire system weighs just under 30 lbs including carrying case and contents

Powered by 100-240 VAC 50-60 Hz, or DC

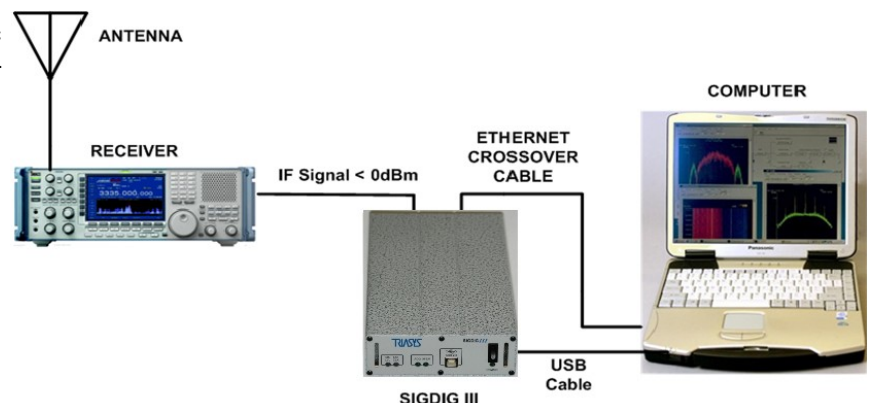


TriaSys Technologies' Phoenix™ system is the ideal tool for the acquisition and processing of communication signal in a field or operational environment. The newest version of SignalWorks® software is hosted on a rugged notebook computer and coupled with the high-performance SigDig digitizer to become the Phoenix system. Even though the system is small, light, and portable, it sacrifices nothing in terms of performance or ease of use.

With 4 Gbytes of signal storage, very long snapshots can be captured from any communication receiver for detailed analysis down to the demodulated bit level. The integral narrowband tuner in the SigDig allows for continuous, streaming analysis. Larger, wide bandwidth snapshots are processed in a "batch" mode over the USB 2.0 high speed interface or 100BaseT Ethernet connection. Streaming capture to disk is also available.

The SignalWorks software performs signal parameter determination, signal demodulation, bit stream display and manipulation, and clear text display of selected signal formats. Since all commands are mouse-driven on the familiar Windows OS, operation of all features is easy and intuitive. See SignalWorks Data Sheet for more details.

The Phoenix system uses a Panasonic Toughbook® see note 1 laptop computer, which features a rugged case and splash resistant keyboard.



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Phoenix Package Features

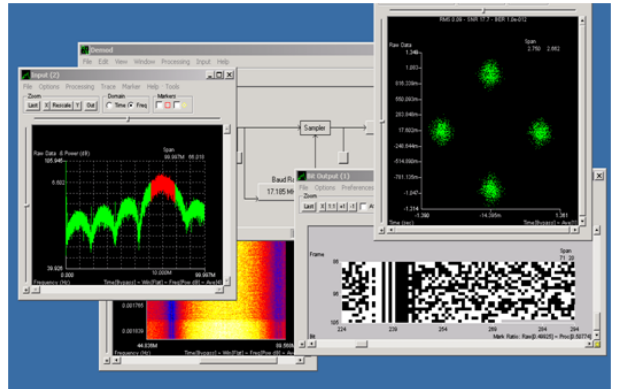
SignalWorks 4.0

Signals analysis software is the heart of the Phoenix system

Powerful signal display, scanning, monitoring, and parameter estimation in *Preview Application*; demodulates PSK, FSK, and up to high-order 1024 QAM subject to ITAR, with automatic adaptive equalization in *Demod Application*; flexible signal and modulation generation with *SigGen Application*.

Powerful, fast signal displays: choose time and frequency domain displays raw, intermediate, and processed signal data: point, line, and raster modes; decodes and displays text for appropriate formats (with user- extensible text decode interface).

Automatic fast frame search algorithm, with unlimited bit integration; the ability to analyze randomized signals for overhead removal, justification and control bits with de-multiplexing capability. Fully programmable Reed Solomon block coding; also configurable Viterbi Convolutional encode/decode including the code generated polynomial, punctured codes; and includes standard rates. Note: Maybe substituted with latest revision.



SigDigIII

A high performance, multi-mode, compact digitizer designed specifically for flexible IF signal collection and analysis

- Wideband snapshot mode at sample rates up to 210 MHz, or integrated digital tuner provides high performance filtering and decimation of narrowband signals at optimized sample rates
- Deep memory: 4 GBytes provides over 40 seconds of snapshot collection at 105 MHz sample rate or 20 seconds at 200 MHz
- Continuous streaming acquisition of narrow band signals (up to 500 Kbytes/sec)
- 210 MHz analog bandwidth accepts any IF from 10 KHz to 200 MHz
- 12 bit wideband snapshot resolution, 8 or 16 bit digital tuner resolution
- Six internal clocks optimized for common IFs, accepts external clock up to 200 MHz
- Housed in separate extruded aluminum enclosure, with 100BaseT Ethernet interface and USB 2.0 interface to computer

Hosted on the rugged Panasonic Toughbook 53 note1 laptop computer

- 14.0" High Definition LED Display 1366 x 768 (supports external video)
- Sunlight-viewable Touchscreen for mouse-less operations
- Intel 2.5GHz i5 Core Processor, 8 GB RAM
- 320GB hard drive 7200rpm
- Integrated Ethernet 10/100/1000
- USB 3.0 (x1), USB 2.0 (x3)
- Wi-Fi Support included
- Spill-resistant keyboard
- DVD Super MULTI Drive with Dual Layer Support
- Windows 7, Office Home & Business

Note 1: Notebook may be substituted for any equivalent or better obtainable ruggedized computer



Includes convenient Transit Case

- Protects system during transit
- Houses system components with foam inserts
- Size without wheels 21.70 x 14.80 x 9.20
- Tough ABS construction, exclusive blue silicone o-ring seals out the elements, protecting contents from water, dust and other contaminants. Submersion Test Depth: 1 meter
- Standard includes telescopic handle and 2 wheels *Wheels and handle assembly can be omitted upon request.



Ordering Information:

Model Numbers*

- Phoenix 1024 QAM AD
- Phoenix 1024 QAM
- Phoenix 64 QAM AD
- Phoenix 64 QAM
- Phoenix 64 QAM WOT - without Toughbook Computer

Other configurations may be available consult sales representative

*Some features may not be available for export, Subject to ITAR Regulations

To Inquire or Order

For a demonstration, further information, or to contact a representative, please call 978.244.1060, or visit our website at