SPARK
Development Systems

ReadyFlow
Board Support Package

Features

- 9-slot, 4U 19-inch rackmount, 12-inch deep chassis which houses 3U VPX boards
- 64-bit Windows® 7 Professional or Linux® workstation
- Intel® Core™ i7 3.6 GHz processor
- 8 GB DDR3 SDRAM
- ReadyFlow® drivers and board support libraries installed
- Out-of-the-box ready-to-run examples

General Information

The Model 8267 is a fully-integrated, 3U VPX development system for Pentek Cobalt®, Onyx® and Flexor™ software radio, data acquisition, and I/O boards. It was created to save engineers and system integrators the time and expense associated with building and testing a development system that ensures optimum performance of Pentek boards.

A fully-integrated system-level solution, the 8267 provides the user with a streamlined out-of-the-box experience. It comes preconfigured with Pentek hardware, drivers and software examples installed and tested to allow development engineers to run example applications out of the box.

ReadyFlow Software

Pentek ReadyFlow drivers and board support libraries are preinstalled and tested with the 8267. ReadyFlow includes example applications with full source code, a command line interface for custom control over hardware, and Pentek's Signal Analyzer*, a full-featured analysis tool that continuously displays live signals in both time and frequency domains.

System Implementation

Built on a professional 4U rackmount workstation, the 8267 is equipped with the latest Intel i7 processor, DDR3 SDRAM and a high-performance single-board computer. These features accelerate application code development and provide unhindered access to the high-bandwidth data available with Cobalt, Onyx and Flexor analog and digital interfaces. The 8267 can be configured with 64-bit Windows or Linux operating systems.

The 8267 uses a 19" 4U rackmount chassis that is 12" deep. Nine VPX slots provide ample space for an SBC, a switch card and multiple Pentek boards. Enhanced forced-air ventilation assures adequate cooling for all boards and dual 250-W power supplies gurantee more than adequate power for all installed boards. Mounting provisions for two 3.5 in. drives with front-accessible trays allow for easy removable storage. Front-panel access to USB, display, Ethernet and RS-232 ports simplifies development; an optional rear transition module supplements the front-panel connections with SATA, audio, a second video interface, and additional USB ports.

Configuration

All 8267 systems come with software and hardware installed and tested. Up to seven Pentek boards in the 8267 can be supported. Please contact Pentek to configure a system that matches your specific requirements.

Options

Available options include high-end multi-core CPUs and extended memory support.

Specifications

Operating System: 64-bit Windows 7 Professional or Linux
Processor: Intel Core i7 processor
Clock Speed: 3.6 GHz
SDRAM: 8 GB standard, 16 GB optional
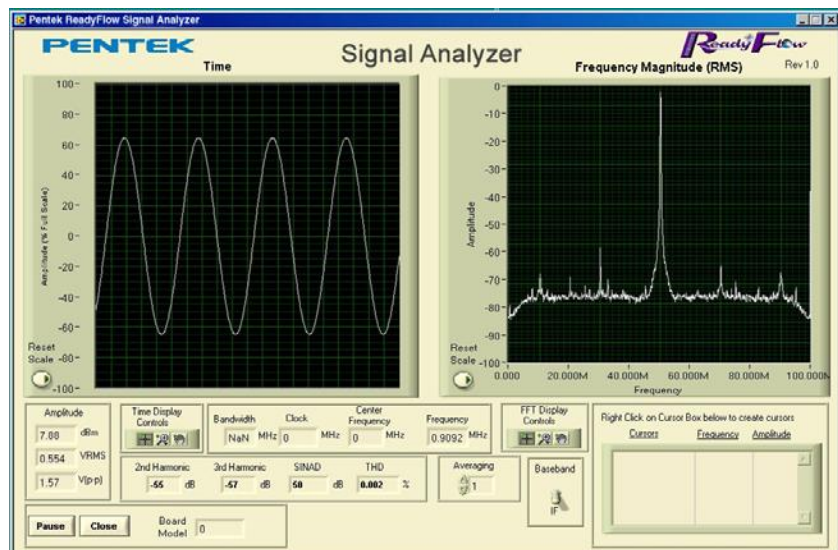**Dimensions:** 4U Chassis, 19" W x 12" D x 7" H
Weight: 35 lb, approx.
Operating Temp: 0° to +50° C
Storage Temp: −40° to +85° C
Relative Humidity: 5 to 95%, non-condensing
Power Requirements: 100 to 240 VAC, 50 to 60 Hz, 1000 W max.

Ordering Information

Model	Description
8267	3U VPX Development System for Cobalt, Onyx and Flexor Boards

Options:

-094	64-bit Linux OS
-095	64-bit Windows 7 OS
-101	Upgrade to 16 GB DDR3 SDRAM

The addition of third-party VPX boards may affect system performance. Please consult with us before doing so.

* The Pentek Signal Analyzer is not supported on 64-bit Linux.

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