New!

Model 8266

PC Development System for PCIe Cobalt and Onyx Boards

SPARK Development Systems

ReadyFlow Board Support Package

Features

- 4U 19-inch rackmount PC server chassis, 21-inch deep
- 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 test examples

General Information

The Model 8266 is a fully-integrated PC development system for Pentek 786xx Cobalt® and 787xx Onyx® PCI Express 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 8266 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 8266. 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 8266 is equipped with the latest Intel processor, DDR3 SDRAM and a high-performance motherboard. These features accelerate application code development and provide unhindered access to the high-bandwidth data available with Cobalt and Onyx analog and digital interfaces.

The 8266 can be configured with 64-bit Windows or Linux operating systems.

The 8266 uses a 19″ 4U rackmount chassis that is 21″ deep. Enhanced forced-air ventilation assures adequate cooling for Pentek Cobalt and Onyx boards.

The chassis is designed to draw cool air from the front and push warm air out the back. A 1000 W, 80+ Gold Power Supply guarantees more than enough power for additional boards.

Configuration

Pentek uses a variety of motherboards to provide the flexibility for operation and cooling of each system. Up to four Pentek Cobalt or Onyx boards in the 8266 can be supported. Please contact Pentek to configure a system that requires additional PCIe slots for 3rd party hardware.

Options

Options for high-end multicore CPUs and extended memory support applications that require additional horsepower are available.

Specifications

Operating System: 64-bit Windows 7 Professional or Linux
Processor: Intel Core i7 processor
Clock Speed: 3.6 GHz
SDRAM: 8 GB
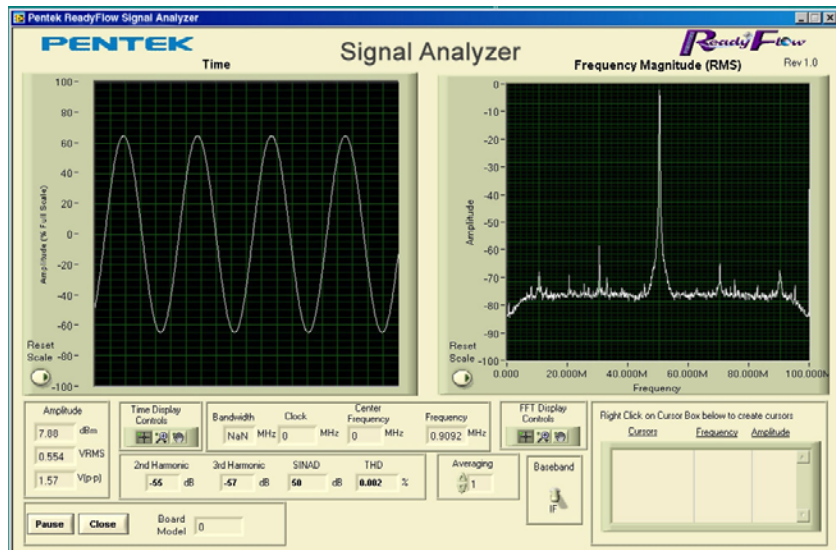**Dimensions:** 4U Chassis, 19″ W x 21″ D x 7″ H
Weight: 35 lb, approx.
Operating Temp: 0° to +50° C
Storage Temp: –40° to +85° C
Relative Humidity: 5 to 95%, non-condensing
Power Requirements: 100 to 240 VAC, 50 to 60 Hz, 1000 W max.

Ordering Information

Model	Description
8266	PC Development System for PCIe Cobalt and Onyx Boards

Options:

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

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

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