Why Customers Buy From Pentek

• Pentek has been designing and building boards for 25+ years: We understand how these boards are going to be used and have designed them for maximum performance, signal quality, thermal characteristics, cooling, FPGA loading, I/O to and through the boards and for channel synchronization where low phase noise is critical.

• Digital Signal Processing & Data Acquisition and I/O Experts: By thoroughly understanding advanced signal theory and real-world system considerations, our experts have spread this knowledge to the embedded computing community through thousands of tutorials, industry articles, techcasts, webcast seminars and technical handbooks targeting the most demanding applications. These same Pentek experts help customers choose the best system architectures for a successful design that is delivered on time.

• Pentek targets the high-end of the market: Building a board is one thing, getting it to perform correctly and at peak performance is another, especially if the FPGA is an integral part of the application. Pentek thereby offers highly optimized products with superior technical support for maximum performance.

• Systems Hardware Prequalification: Pentek characterizes and tests a variety of motherboards, processor boards, RAID controllers, SSDs, etc. so the right components can be used in your systems eliminating system and processing bottlenecks and development time.

• FPGAs are fully characterized: Pentek provides detailed information on FPGA utilization and can recommend exactly which FPGA to use on each board based on how much user generated IP will be installed.

• Navigator Design Suite: The Navigator Design Suite, consisting of the BSP and FPGA Design Kit, provides an unparalleled plug-and-play solution to the complex task of IP and control software creation and compatibility.

• FPGA IP development support: All of Pentek’s boards use the FPGA as an integral part of the board for moving data and for signal processing functions. As a result, Pentek is expert at developing IP and using vendor’s development and debugging software tool sets. This helps new customers through the process, saving time and money.

• Technical Support: Pentek offers free, unlimited, lifetime technical support from seasoned DSP engineers. Pentek’s superior support means customers get their application implemented significantly faster. Pentek excels at supporting you until you get your issues resolved.

• Documentation: Pentek’s documentation is the best in the industry. This level of quality documentation saves an enormous amount of development time.

• Startup Time: You can install and use the board immediately by using the ReadyFlow Command Line Interface and Signal Analyzer to display the data without having to do any programming. This saves development time and shortens project start up time.

• Quality: Pentek implements the highest quality practices in all operational phases, and is committed to customer satisfaction and on-going improvement. Pentek proudly maintains its ISO 9001:2015 certification.

Associations

Pentek is an active member in many industry associations that drive new technologies including the following:
Pentek takes pride in listening to its customers and creating new products to meet their needs. We promise an atmosphere of freedom and creativity among our engineers, so they can design industry-leading products to satisfy the most demanding applications. This has been the key to our success through the years.

- Rodger Hosking
Vice President & Co-Founder, Pentek

Pentek’s 88,000 sq. ft. facility in Upper Saddle River, NJ

You can select from a variety of recording systems and processor boards with the industry’s most extensive line of advanced analog and digital I/O products, along with exclusive development tools that help you get up and running quickly.

**High-Speed Real-Time Recording Systems**
- Economical alternatives to in-house development
- Fully tested and ready to run right out-of-the-box
- Full-featured SystemFlow® recording software
- Sentinel® Intelligent Signal Scanning Software

**Processor Engines**
- FPGA processors and IP
- Navigator™ Design Suite

**Data Acquisition**
- Single or multichannel A/Ds and D/As
- Sampling rates to 6.4 GHz
- Resolution to 16 bits
- Optical, sFPDP and Gbit Ethernet interfaces

**Software Radio**
- Up to 2200 channels per slot
- Narrow-, wide- & multi-band products
- Downconverters and upconverters

**Company Brief**
- Designs and builds boards and recording systems for 30 years satisfying customer demands in many military programs and commercial markets.
- Provides high-performance COTS and rugged board & recording system solutions for the lab and deployment.
- Pentek engineers maintain a thorough understanding of advanced signal theory and real-world system considerations.
- Small business, privately held, manufactures in the USA.
- Serves high-end radar, communications, SIGINT, beamforming, software radio & SATCOM markets.
- Optimizes design for maximum performance and to satisfy critical requirements.
- Pentek is a technology partner with deep knowledge of customer applications.
- Offers complete technical documentation that saves development time.
- Committed to customer satisfaction with free, lifetime customer support.
- Provides long term product availability and life-cycle support with automated life cycle management notification system.
- Bonded Inventory Program extends product longevity.
- Bundle discount programs and volume discounts available.
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