

## BRAME-TECHNOLOGIES VNX PERIODICAL #1

Brame Technologies (Brame-Tech) is a provider of rugged and military grade products and Small Form Factor (SFF) systems to the avionic, military and rugged industrial markets. Brame-Tech's policy is to promote Commercial Off The Shelf (COTS) computers which are based on commercially accepted standards, and qualifiable to applicable MIL specifications. The advantages to this approach are crystal clear; building standards based products can offer better Availability, Price and Delivery. Brame-Tech's General Manager, Mr. Bill Ripley, was one of the pioneers of the VITA-74, also known as VNX, standard. Years ago, Bill concluded that there was a crucial need for a coherent, standards-based, module-centric, small form factor COTS architecture and joined with other like-minded industry experts to form a VITA committee to develop the standard. The goal of the VNX standard is to take the concepts that have made its "big-brother" VPX successful, and apply those concepts to a similarly architected SFF platform. To minimize time-to-market, technical risks and cost, VNX mirrored much of the innovative work done on VITA 46/65 (VPX/OpenVPX), VITA 57 (FMC), COM Express, MiniPCle to offer a conduction cooled, rugged SFF solution with respectable performance and reduced Size, Weight, Power and Cost; better known as SWaP-C. Please visit our website at [www.brame-tech.com](http://www.brame-tech.com) to download a detailed introduction to VNX.



The goal of this periodical is to give an update when new accomplishments and progress related to VNX come to light. The recent good news is that VITA 74.0 is now an approved VITA standard, and is working its way through the process for full ANSI accreditation. The ANSI process should be complete by the end of May 2017.



The VNX standard is "module centric" and allows the modules to be used in a conventional slotted backplane for applications such as a Mission Computer, Signal Data Concentrator or Data Link Processor. Similarly, VNX modules are also commonly used in a system without a bus architecture, such as when VITA 74 modules are used to turn a rugged "Dumb Display" into a "Smart Display" or when adding processing capability to a Network Switch. Since the standard has been designed to be as flexible as possible, this should motivate more manufacturers to utilize the VNX form factor. More options will lead to more availability and competitive prices.

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