



# NEWS RELEASE

**FOR IMMEDIATE RELEASE:**

*Contacts:*  
*Neil Peterson*  
*VPX Marketing Alliance Chair*  
*978-487-3281*  
*peterson\_neil@hotmail.com*

*Ray Alderman*  
*Executive Director*  
*VITA*  
*480-837-7486*  
*exec@vita.com*

## **VPX™ REDI Standard Reaches ANSI/VITA Ratification**

**Advanced cooling schemes and 2-level maintenance defined for VPX.**

SCOTTSDALE, AZ, November 2, 2010 — VITA, the trade association dedicated to fostering American National Standards Institute (ANSI) accredited, open system architectures in critical embedded system applications, announced the ratification by ANSI and VITA of the VPX™ REDI base specification and several dot specifications.

VPX REDI is a computing standard defining mechanical specifications for cooling and maintenance strategies for VPX systems. VPX is an embedded computing platform utilizing the latest in a variety of switch fabric technologies in 3U and 6U Eurocard format modules.

VPX REDI was inspired by the need for higher density electronics, increased power draw that requires more effective cooling strategies, and rugged and maintainable modules. VPX REDI targets the requirements of Commercial-off-the-Shelf (COTS) platforms for defense and aerospace, defining mechanical design implementations for embedded computing modules with three primary design objectives:

1. Accommodating cooling methods including forced air, conduction, and liquid cooling.
2. Adding features compatible with ESD covers required for two-level maintenance strategies.
3. Facilitating module designs with components on the secondary side of the circuit board.

"The work on VPX REDI dovetails with the OpenVPX™ architectural framework, which we helped lead last year," said Mike Gust, Senior Manager, Mechanical Engineering at Mercury Computer Systems and Chair of the VITA 48 working group. "Effective standards for rugged systems are critical to meeting the DoD's need for cost effective, deployable computing subsystems that can be deployed rapidly in new embedded defense applications. We feel that we have successfully met the VPX REDI objectives and look forward to the utilization of our efforts in upcoming products," Gust added.

The following VPX REDI specifications have been ANSI/VITA ratified.

- ANSI/VITA 48.0-2010: Ruggedized Enhanced Design Implementation Mechanical Base Specification
  - Defines a mechanical implementation for plug-in units. Two types of plug-in units are defined: Type 1 and Type 2. Both take advantage of increased slot pitch to provide enhanced thermal performance and increased structural durability. Only Type 1 units support Level 2 maintenance.
- ANSI/VITA 48.1-2010: Mechanical Specification for Microcomputers Using Air Cooling Applied to VPX
  - Defines the mechanical requirements that are needed to insure the mechanical interchangeability of air cooled 3U and 6U plug-in units and define the features required to achieve 2 Level Maintenance compatibility.
- ANSI/VITA 48.2-2010: Mechanical Specification for Microcomputers Using Conduction Cooling Applied to VPX
  - Defines the mechanical requirements that are needed to ensure the mechanical interchangeability of conduction cooled 3U and 6U plug-in units and defines the features required to achieve 2 Level Maintenance compatibility.
- ANSI/VITA 48.5-2010: Mechanical Specification Using Air Flow-through Cooling Applied to VPX
  - Establishes the design requirements for an air flow-through cooled plug-in unit with a 6U form factor using a compact core heat exchanger located within the central heat sink of the unit.

Companies that develop VPX products are encouraged to contact VITA to join the VPX Marketing Alliance. For more information, visit the VPX Marketing Alliance website at [www.vita.com/vpx](http://www.vita.com/vpx).

The ANSI/VITA48.x-2010 documents are available from VITA.

### ***About VITA***

Founded in 1984, VITA is an incorporated, non-profit organization of suppliers and users who share a common market interest in critical embedded systems. VITA champions open system architectures. Its activities are international in scope, technical, promotional, and user-centric. VITA aims to increase total market size for its members, expand market exposure for suppliers, and deliver timely technical information. VITA has ANSI and IEC accreditation to develop standards (VME, VXS, VPX, OpenVPX, VPX REDI, XMC, FMC, etc.) for embedded systems used in a myriad of critical applications and harsh environments. For more information, visit [www.vita.com](http://www.vita.com).

VITA and the VITA, VMEbus Technology, VXS, VPX, OpenVPX, VPX REDI, XMC, and FMC logos are trademarks of VITA in the United States and other countries. Other names and brands may trademarks or registered trademarks of their respective holders.

*Source: VITA*