



NEWS RELEASE

FOR IMMEDIATE RELEASE:

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VITA Standards Organization Ratifies VPX REDI VITA 48.7 Standard for Cooling

Mechanical standard for electronic plug-in units using Air Flow-By cooling technology

VITA, November 4, 2014 — VITA, the trade association dedicated to fostering American National Standards Institute (ANSI) accredited, open system architectures in critical embedded system applications announces that VITA 48.7 “Mechanical standard for electronic plug-in units using air flow-by cooling technology” has reached ANSI recognition as ANSI/VITA 48.7-2014. This specification has completed the VITA and ANSI processes reaching full recognition under guidance of the VITA Standards Organization (VSO).

“We are pleased that Air Flow-By™ has received VITA/ANSI recognition,” said Paul Zuidema, Mechanical Engineering Manager at Mercury Systems and VITA 48.7 Working Group Chair. “To meet new complex ISR mission requirements, defense prime contractors are demanding powerful, low-SWaP processing capability. Air Flow-By fulfills these needs by reliably and efficiently removing more heat than ever before, enabling defense primes to deploy processing-dense solutions such as rugged cloud capability, right at the tactical edge.”

ANSI/VITA 48.7 defines a detailed mechanical implementation for Air Flow-By (AFB) cooling and sealing technologies applied to plug-in modules, backplanes, and sub-racks as defined in VPX (ANSI/VITA 46) and VPX REDI (ANSI/VITA 48). The purpose of this specification is to define the critical dimensions for AFB plug-in units required to ensure the mechanical interchangeability of plug-in units. The specification also covers the critical sub-rack features and interfaces to ensure reliable and repeatable installation of AFB modules into an AFB subsystem.

Air Flow-By overview:

- Air Flow-By utilizes convection heat transfer to cool plug-in modules.
- Plug-in module printed circuit board assemblies (PCBAs) and backplanes are not exposed to the cooling air.
- The plug-in modules PCBAs are sealed within heat exchanging covers.
- A plate with apertures for the backplane connectors is installed over the backplane. This plate provides a means to seal the plug-in modules around the backplane connectors and provides additional stiffness for the backplane.

Copies of the specification are available for purchase at the VITA Online Shop

(<http://shop.vita.com/>),

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, VNX, etc.) for embedded systems used in a myriad of critical applications and harsh environments. For more information, visit www.VITA.com.

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