



## News Release

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FOR IMMEDIATE RELEASE

### **ISM™ and SUMIT-ISM™ Specifications Now Available to Bring Flexible SUMIT™ Expansion to Industry Standard 90x96mm Stackable Modules**

*Standards incorporates state of the art SUMIT™ I/O expansion while supporting legacy PC/104 or PCI-104 modules in the stack*

Santa Clara, CA, October 13, 2009 - The Small Form Factor Special Interest Group (SFF-SIG), a collaboration of leading suppliers of embedded component, board and system technologies, today announced the availability of both revision 1.0 of the ISM (Industry Standard Module) and SUMIT-ISM Specifications for small, rugged, stackable embedded systems. The SUMIT-ISM Specification documents the use of SFF-SIG's flexible SUMIT (Stackable Unified Module Interface Technology) interface on popular 90 x 96mm stackable modules. The ISM Specification provides an explicit form-factor-only definition upon which the SUMIT-ISM Specification is built. Since the SUMIT Specification itself defines only a board-to-board interface (connectors and pin definition), the ISM Specification is necessary to define the form factor while the SUMIT-ISM Specification defines how SUMIT is implemented on ISM modules.

In order to support a wide variety of legacy 90x96mm modules marketed as PC/104 or PCI-104 modules on a SUMIT-ISM stack, the SUMIT-ISM Specification offers an extraordinary level of flexibility to maintain compatibility. The SUMIT-ISM Specification defines two legacy stack types, using slotted mounting holes on ISM modules to provide

symmetry not found with PC/104. This enables SUMIT-ISM modules to be created with legacy support for either the PC/104 ISA bus or the PCI-104 PCI bus by allowing the module to be rotated 180 degrees as necessary to fit the legacy type required while maintaining the SUMIT interface. Legacy bus support can be supplied by the CPU and maintained up the stack, or can be provided through a bridge module in the stack itself.

With SUMIT-ISM, stackable I/O expansion is implemented using the SUMIT standard introduced by SFF-SIG in early 2008. Through the inclusion of one or two 52-pin SUMIT connectors, a SUMIT-ISM CPU can provide PCI Express™ (up to 6 x1 lanes or 2x1 and 1 x4 lane), USB 2.0, LPC, I2C and/or SPI interfaces to the SUMIT-ISM I/O modules. The SUMIT-ISM CPU designer has the flexibility to provide all or any subset of these interfaces.

In anticipation of the release of these Specifications, SUMIT-ISM CPUs are already available from member companies ADLINK and VersaLogic. SUMIT-ISM I/O modules are available from member companies VersaLogic and WinSystems.

Companies interested in participating in future revisions of the ISM, SUMIT-ISM and SUMIT Specifications should contact the SFF-SIG at [info@sff-sig.org](mailto:info@sff-sig.org). The ISM and SUMIT-ISM Specifications may be downloaded from [www.sff-sig.org/sumit.html](http://www.sff-sig.org/sumit.html)

### **About the Small Form Factor SIG**

The Small Form Factor Special Interest Group is an international organization devoted to identifying, creating, and promoting standards that help electronics system and device manufacturers and integrators move to small form factor technologies and building blocks in their products, and protect their investments. Benefits of small form factor products include smaller size, reduced power consumption (eco-friendly, “green” products), and greater reliability compared to larger legacy products.

The SIG's philosophy is to embrace the latest technologies, as well as maintain legacy compatibility and enable smooth transition solutions to next-generation interfaces. For more information about the SFF SIG, visit [www.sff-sig.org](http://www.sff-sig.org) or e-mail [info@sff-sig.org](mailto:info@sff-sig.org).

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