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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Highlights

SUMIT-micro Form Factor Small footprint board expands any SUMIT™-based system.

SATA Interface Supports two SATA drives and includes RAID 0 (Fast) and RAID 1 (Safe) operation.

Industrial Temperature -40° to +85°C operation for harsh environments.

MIL-STD-202G Qualified for high shock/vibration environments.

Overview

The VL-EPHs-S1 expansion module provides SATA interface capabilities for any SUMIT-based embedded system. With a small footprint, simplified interface, and extensive ruggedization, the VL-EPHs-S1 is an ideal solution for all SUMIT systems that require SATA capabilities.

The VL-EPHs-S1 is designed to support OEM applications where high reliability and long-term availability are required. From application design-in support, to the 5+ year production life guarantee, the VL-EPHs-S1 provides a rugged embedded computer solution with an excellent cost of ownership. The VL-EPHs-S1 is manufactured and tested to the highest quality standards and is fully RoHS compliant. Customization is available, even in low OEM quantities.

Details

The VL-EPHs-S1 expansion module is a 90 mm x 32 mm (3.54" x 1.26") mezzanine "SUMIT-micro" card that provides SATA signals via the PCIe lane of the SUMIT-A connector. It mounts to the top of the SUMIT stack using two hardware standoffs. The on-board SATA controller supports two SATA drives in normal, RAID 0 (Fast), or RAID 1 (Safe) configuration. The two standard latching SATA connectors are compatible with traditional rotating drives, as well as solid-state SATA drives. An EEPROM BIOS extension enables booting from a SATA device.

Designed for full industrial (-40° to +85°C) temperature operation; the VL-EPHs-S1 meets MIL-STD-202G specifications for mechanical shock and vibration for use in harsh environments.

The VL-EPHs-S1 is compatible with a variety of popular operating systems including Windows, Windows Embedded, Linux, VxWorks, and QNX.







VL-EPHS-S1 SUMIT-micro SATA Adapter

Ordering Information

Model	SATA Ports	Operating Temp.	Stackable Bus
VL-EPHs-S1E	2	-40° to +85°C	SUMIT

Accessories

Part Number	Description			
Cables				
VL-CBR-0701	19.75" SATA cable			
VL-CBR-0702	19.75" SATA cable, latching			
Drives				
VL-HDS35-xxx	3.5" hard drive (SATA)			
Mounting Hardware				
VL-HDW-105	0.6" standoff package (metric thread)			
VL-HDW-106	0.6" standoff package (English thread)			
Miscellaneous				
VL-HDW-201	Board extraction tool			

SPECIFICATIONS				
General	Board Size	SUMIT-micro: 32 mm x 90 mm (1.26" x 3.54")		
	Power Requirements *	+5V@0.21A (1W) typ. (via SUMIT connector)		
	Stackable Bus	SUMIT (top of stack only)		
	Manufacturing Standards	IPC-A-610 Class 2 compliant		
	RoHS	RoHS (2002/95/CE) compliant		
Environmental	Operating Temperature	-40° to +85°C		
	Storage Temperature	-40° to +85°C		
	Airflow Requirements	Free air from -40° to +85°C		
	Thermal Shock	5°C/min. over operating temperature		
	Humidity	Less than 95%, noncondensing		
	Vibration, Sinusoidal Sweep	MIL-STD-202G, Method 204, Modified Condition A 2g constant acceleration from 5 to 500 Hz, 20 minutes per axis		
	Vibration, Random	MIL-STD-202G, Method 214A, Condition A: 5.35g rms, 5 minutes per axis		
	Mechanical Shock	MIL-STD-202G, Method 213B, Condition G: 20g half-sine, 11 ms duration per axis		
Mass Storage	SATA Interface	Two SATA (Revision 2.0) ports. Bootable via BIOS extension. Latching right angle SATA connectors. Support for RAID 0 (Fast) and RAID 1 (Safe).		
Software	BIOS	EEPROM BIOS extension to enable booting from a SATA device		
	Operating Systems	Compatible with most x86 operating systems including Windows, Windows Embedded, Linux, VxWorks, and QNX		

* Power specifications represent typical power draw at +25°C with +5V supply running Windows XP

Specifications are subject to change without notification. SUMIT is a trademark of the SFF-SIG. SUMIT-micro is a trademark of VersaLogic Corp. All other trademarks are the property of their respective owners.

SUMIT Resources					
Form Factor: SUMIT-micro					
	SUMIT-A	SUMIT-B			
PCle x1	1				
PCIe x4					
USB	-				
ExpressCard	-				
LPC	-				
SPI/µWire	-				
SMBus/I ² C	-				
+12V	-				
+5V	~				
+5V _{sb}	-				
+3.3V	-				

02/15/13