ADi-SA2X-KB/SL

High-Performance Gaming Platform based on 7th Gen Intel® Core™ Processors
Supports up to Seven Independent Displays Including 4K UHD

Features

- High performance "all-in-one" gaming platform
- Highly scalable platform meets individual performance, graphics and power needs
- Compact dimension yet with intensive expansion for vertical add-ons
- Advanced security feature set and software solutions
- Intelligent middleware shortens development time



Introduction

ADLINK's ADi-SA2X-KB/SL all-in-one gaming platform features powerful processing and graphics performance for gaming infotainment and retail. Equipped with 7th Generation Intel® Core™ processors, the ADi-SA2X-KB/SL provides compelling graphics performance from a PCI Express 3.0 x16 discrete graphics card and/or an embedded Intel® HD Graphics 630 together with multi-display support for up to seven independent monitors. With the powerful processing performance, advanced security functions, smart middleware solutions, and versatile I/O array, the ADi-SA2X-KB/SL fully satisfies the needs of your gaming application.

The ADi-SA2X-KB/SL is a true application-ready gaming platform providing OEMs with a highly flexible and reliable all-in-one system that offers unparalleled portfolio of services that help developers save time and remain in compliance. The platform is designed to meet the GLI-11 (Gaming Laboratories International) certification and all major global gaming market compliance requirements. The comprehensive middleware as well as the security and extensive I/O solutions enable developers to easily bridge applications with peripheral devices, sensors, and surrounding solutions up to central monitoring and control systems.

High Scalability and Ideal Range of Performance Class
The ADi-SA2X-KB/SL is designed with highly scalable and reliable hardware that can be flexibly scaled from entry level up to the highest performance class, with tailored configuration of CPU and GPU selections. The platform also provides compact dimensions for developers using a more compact cabinet footprint and offers extensive expansion capabilities for the needs of vertical add-ons.

Multi-Display Graphics Capabilities
The ADi-SA2X-KB/SL provides support for up to 4K resolutions via three standard video outputs based on the Intel® Q170 chipset. It is capable of supporting dedicated graphics cards for up to seven independent monitors that conform to the latest DisplayPort 1.2 standard.

Advanced Security and NVRAM PCI Express for Gaming Designed to Meet GLI-11
ADLINK's ADi-BSEC is a high-speed PCI Express card with up to 16 MB NVRAM & SRAM. It offers a crypto and authentication security chip with power-off monitoring and event logging designed to meet the GLI-11 (Gaming Laboratories International) certification requirements. Further features are also available, such as TPM1.2 trusted platform module, Bit Lock, Software Chain of Trust (sCOT), BIOS customizations, Intrusion Detection, Security Dongle to provide the comprehensive protection of the assets.

ADLINK Comprehensive Middleware Solutions
ADLINK's ADiAPI (intelligent Application Programming Interface) and SEMA® (Smart System Management Agent) provide advanced integration of hardware/software monitoring and controlling allowing simplified and unified application development without dependencies on the peripheral devices.

Ordering Information

- **ADi-SA2X-SL-BAAS**
  Intel® Core™ i5-6500TE, Intel® Q170, TPM, SEMA, ADi-BSEC card(4MB SRAM), ADi-BACC-G2F, ADi-BAMP Card, 8G DDR4, 128GB SSD, with +12V/120W ATX power adaptor
- **ADi-SA2X-KB-BAAS (Call for availability)**

*Other configurations on request

Options

- **ADi-BSEC**
  Intelligent Infotainment Security and NVRAM PCI Express Card
- **ADi-BAMP**
  Audio Amplifier, 2x 12-15W
- **ADi-BACC**
  Gaming and Retail Extension I/O Board
- **ADiAPI**
  Intelligent middleware used for controlling peripheral devices
- **ADiDLL**
  Middleware used for controlling optional add-on devices
- **SAS 6.02/6.03 engine**

Optional Accessories

- **ADi-BSEC cable**
- **Box PC cable kit**
- **ADi-BACC Cable kit**

Product Illustration



ADi-SA2X-KB-BAAS
ADi-SA2X-SL-BAAS



ADi-SA2X-KB-DAAS
ADi-SA2X-SL-DAAS



ADi-SA2X-KB-AAAS
ADi-SA2X-SL-AAAS

Specifications

Model Name	ADi-SA2X-KB	ADi-SA2X-SL
Core System		
Processor	Socket LGA1151 supporting 7th Generation Intel® Core™ Processors from 35W up to 65W	Socket LGA1151 supporting 6th Generation Intel® Core™ Processors from 35W up to 65W
Chipset	Intel® Q170 or H110	
BIOS	AMI uEFI on 16 MB SPI BIOS flash with Intel® AMT 11.0 support via onboard BIOS socket and SPI header	
Expansion Slot	1 PCIe x16 slot	
	1 PCIe x1 slot	
	1 full-size Mini PCIe slot supporting PCIe+USB or mSATA (by option)	
	1 half-size Mini PCIe slot supporting PCIe and USB	
Memory	Dual-channel, non-ECC 1333/1600/2133 MHz DDR4/DDR3L memory up to 32 GB in dual vertical SODIMM sockets	
Graphics	Intel® HD Graphics 630	Intel® HD Graphics 530
	NVIDIA® QUADRO® P620 embedded with extended availability NVIDIA® QUADRO® P1000 embedded with extended availability Other options on request	
Storage	2x HDD/SSD (2.5“)	
	2x CFast (via 2.5“ adapter option)	
	2x SATADOM *on request	
Security	Kensington Lock, Intrusion switch for ADi-BSEC power-off, Security Dongle, Eylet for seal, TPM, Bit Lock, Software Chain of Trust, BIOS Customization, ADi-BSEC security card (option) , Cable and connector covers (option)	
I/O interface		
Serial ATA	3x Serial ATA 6Gbps ports	
Ethernet	2x GbE ports (10/100/1000 GbE connection)	
Serial Ports	1x RS-232/422/485 via onboard header	
	3x RS-232 via onboard header	
Audio Interface	Codec Realtek ALC886	
	7.1 channel audio via 5 jacks and S/PDIF output on rear I/O	
	7.1 channel audio signals and S/PDIF output on internal header	
USB	4x USB 3.0 and 4x USB 2.0 on rear I/O	
	2x USB 3.0 on board header (H110:USB2.0)	
	1x USB 2.0 on vertical connector with keep out area for dongle	
DisplayPort	Q170: 3x outputs with resolution up to 4096 x 2160 pixels	
	H110: 2x outputs with resolution up to 4096 x 2160 pixels	
	4x PEG card outputs (option)	
Wi-Fi	802.11 a/b/g/n (option)	
Power supply (option)		
	ADi-SPSU (100-240VAC) or 3pin DC in connector (+9-36VDC) or 14 pin ATX power adaptor (+12V/120W)	
Mechanical		
Dimensions	265 mm (W) x 225 mm (D) x 87 mm (H; w/o brackets) (10.4 in x 8.9 in x 3.4 in) ADi-SPSU option: +43 mm (w); ADi-BACC option: +20 mm (D)	

Environmental & Safety		
Operating Temperature	0°C to 50°C (32˚F to 122˚F)	
Storage Temperature	-20°C to 70°C (-4˚F to 158˚F) (excl. HDD/SSD/CFast)	
Humidity	~85% @ 50°C (144˚F) (non-condensing)	
Vibration	Operating, 1 Grms, 5-500 Hz, 3 axes (w/ CFast or SSD)	
	Operating, 0.5 Grms, 5-500 Hz, 3 axes (w/ 2.5" HDD)	
Shock	Operating, 20 G, half sine 11 ms duration (w/ CFast or SSD)	
EMC	CE and FCC Class A	
ESD	Contact +/-4 KV and Air +/-8 KV	
Safety	UL/cUL, CB, KCC	
Operating Systems		
	Windows® 10 IoT	Windows® 7 32/64-bit, Linux 32/64-bit
Gaming-Specific Features and Security (Options)		
	Up to 2x 8MB dual independent (battery-buffered) high-speed NVRAM (fast PCIe x1 interface)	
	Crypto & Authentication Security Chip (SHA-256, RNG, UID, EEPROM, OTP)	
	Intrusion detection and event logging (battery-buffered)	
	EEPROM support (various; SMD down and DIP socket jurisdiction EEPROM)	
	1-Wire bus support (multiple UID S/Ns silicon numbers and EEPROM)	
	4x additional serial interfaces (RS-232, RS-232 TTL, ccTalk)	
	ccTalk, ID003, EBDS, SSP, TCL and MDB	
	32x digital inputs / 32x digital outputs	
	24 x open drain /40V LED drivers	
	3x high-current outputs	
	EPFail support (early power fail detection input)	
	User LEDs and function switches	
	DIP switch option	
	8x independent current-sensed hardmeter support	
	SEC soft meter suport (SPI)	
	1-Wire support (UID & EEPROM)	
	Key lock, eyelet for sealing, TPM, dedicated security ICs, secure key storage	
	Fully customizable secure BIOS	

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