ADi-SA2X-BE

High-End Gaming Platform based on 2nd Generation AMD Embedded R-Series APU Supports up to Eight Independent Displays Including 4K UHD

Features

- High-end " all in one" gaming platform based on 2nd Generation AMD Embedded R-series APU with AMD Radeon™ G7 Graphics
- Outstanding graphics performance and power efficiency
- Support eight independent monitors, including 4K UHD
- Advanced security feature set for gaming slot machines
- Intelligent middleware shortens development time



Introduction

ADLINK's ADi-SA2X-BE "all-in-one' gaming platform features outstanding graphics performance and power efficiency for infotainment gaming and retail solutions. It is equipped with 2nd Generation AMD Embedded R-Series APU that provides at the same time accelerated graphics performance from an embedded AMD Radeon™ R7 Graphics and/or a PCI Express 3.0 x16 discrete graphics card together with multi-display support for up to eight independent monitors. With outstanding processing and graphics performance, advanced security functions, smart middleware solutions, and versatile I/O array, the ADi-SA2X-BE fully satisfies the needs of your gaming application.

The ADi-SA2X-BE 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.

Breakthrough Graphics and Power Efficiency
The ADi-SA2X-BE supports the 2nd Generation AMD R-Series APU that offers next-generation performance-per-watt compute efficiency in the x86 product category and delivers breakthrough graphics performance and low power consumption designed to provide ultra-immersive HD multimedia experiences and parallel processing compute performance.

Multi-Display Graphics Capabilities
The ADi-SA2X-BE provides support for up to 4K resolutions via three standard video outputs. It is capable of supporting dedicated graphics cards for up to eight 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-BE-BAAS**
  AMD RX-427BB, A77E fusion controller hub, TPM, SEMA, ADi-BSEC card ADi-BACC-G2F, ADi-BAMP Card, with +12V/120W ATX power adaptor

  *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

Optional Accessories

- **ADi-BSEC cable**
- **Box PC cable kit**
- **ADi-BSDK board**
- **ADi-BSDK board cable kit**

Product Illustration



ADi-SA2X-BE-BAAS



ADi-SA2X-BE-DAAS



ADi-SA2X-BE-AAAS

Specifications

Model Name	ADi-SA2X-BE
Core System	
Processor	AMD RX-427BB 2.7G (3.6GHz boost), 35W(4C/8CU) AMD RX-225FB 2.2G (3.0GHz boost), 17W(2C/3CU) other processors on request
Chipset	AMD embedded A77E fusion controller hub
BIOS	AMI uEFI with CMOS back up in 8 MB SPI BIOS
Expansion Slot	1 PCIe x16 slot
	1 PCIe x1 slot
	1 full-size Mini PCIe slot supporting PCIe+USB or mSATA
	1 half-size Mini PCIe slot supporting PCIe and USB
Memory	Dual-channel, non-ECC 1600 MHz DDR3L memory up to 16 GB in dual vertical SODIMM sockets
Graphics	AMD Radeon™ R7 Graphics
	AMD E8860RFL PCI-E VGA (option)
	nVIDIA P1000 PCI-E VGA (option)
	nVIDIA GTX1050TI PCI-E VGA (option)
	AMD HD7750 PCI-E VGA (option)
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-422/485 COM1 only
	4x RS-232 on rear IO
Audio Interface	2x15W Audio Amplifier (option)
	7.1 channel audio via 5 jacks and S/PDIF output on rear I/O
USB	4x USB 3.0 and 4x USB 2.0 on rear I/O (Q87) 2x USB 3.0 on front panel header 2x USB 2.0 on standard header 1x USB 2.0 on vertical connector with keep out area for dongle
DisplayPort	4x outputs with resolution up to 4096 x 2160 pixels
	4x PEG card outputs (option)
Wifi	802.11 a/b/g/n (option)

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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 (122˚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 32/64-bit Linux 32/64-bit