All-in-One Infotainment Box PCs

ADi-SA1X-HL / ADi-SA2X-HL

Vertical Markets

- Gaming, Vending and Retail
- Industrial Automation
- Medical



ADi-SA1X-HL
ADi-SA2X-HL

Key Features

- Infotainment Box PC with longevity
- Most flexible, scalable, modular and upgradeable Box PCs
- Powerful vertical market hardware and software add-on products
- Application-ready intelligent platforms for gaming and retail (Infotainment ARIPs)
- Automated payment solution
- Strong Security feature set
- Intelligent middleware options (SEMA, SEMA Cloud, iAPI)
- Designed for connected IoT & Cloud computing and designed to meet GLI
- Fast time to market and optimized total cost of ownership

SEMA SEMA Cloud AGEM Association of Gaming Equipment Manufacturers

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ADLINK TECHNOLOGY INC.

ADi-SA1X-HL



ADi-SA2X-HL



Features

- Based on embedded Mini-ITX AmITX-HL-G
- High performance processor support
- Up to 7x independent displays
- PEG Card support (dual slot)
- Powerful vertical add-on products
- Intelligent Middleware (SEMA, SEMA Cloud, iAPI)
- 2x field-removable HDD/SSD/CFast
- Multiple power supply options

Infotainment Applications

- Gaming Slot Machines (Class III/II, VLT/SBG, AWP, SWP/SWoP)
- Multi Player Table Games and Player Tracking
- Casino Signage Controller and Lottery
- Amusement/Entertainment, Arcade Gaming and Bingo
- POS/POI, Kiosk, Self-Service Solutions
- Intelligent Vending Machines (IVMs)
- Digital Signage (DS)

Specifications

Core System

CPU/Processor	Socket H3 LGA1150 supporting 4th generation Intel® Core™ i7/i5 processors up to 65W Intel® Core i5-4570TE Processor 2.7 GHz, 35W Intel® Celeron G1820TE Processor 2.2 GHz, 35W Other processors on request
Chipset	Intel® Q87 or H81 Chipset
Memory	Dual channel non-ECC 1333/1600 MHz DDR3L memory up to 16 GB in dual vertical SODIMM sockets
BIOS	AMI EFI with CMOS backup in 8MB SPI BIOS with Intel AMT 9.0 support (Q87 only) BIOS socket onboard and SPI header for external BIOS
Security	TPM module soldered onboards (option) BIOS socket no board and SPI header for dual fail-safe BIOS (option)
SEMA Support	Supports: voltage/current monitoring, power sequence debug support, AT/ATX mode control, logistics and forensic information, flat panel control, general purpose I2C, failsafe BIOS (dual BIOS), watchdog timer, triple smart fan control

Storage Device

Storage	2x HDD/SSD (2.5“) 2x CFast (via 2.5“ adapter option) 2x SATADOM (on request)) 2x field-removable 2.5“ storage bays

Power Supply

AC-in	ADi-SPSU option (100-240VAC)
DC-in	+9-36VDC, +12VDC or ATX in (options)
DC-out	+12V DC-out

Mechanical

Dimensions	SA1X: 297mm (W) x 225mm (D) x 87mm (H; w/o brakets) SA2X: 265mm (W) x 225mm (D) x 87mm (H; w/o brakets) ADi-SIOG option: +20mm (D) ADi-SPSU option: +43mm (W)

I/O Interfaces

Expansion Slots	1 PCIe x16 Gen3 slot (PCIe 3.0) (double-width support) 1 PCIe x1 Gen2 slot (PCIe 2.0); ADi-BSEC options 1 full-size Mini PCIe slot supporting PCIe+USB or mSATA by jumper setting (on the bottom side) 1 half-size Mini PCIe slot supporting PCIe and USB (on the top side) 1 SPI header for external BIOS
Ethernet	2x GbE (10/100/1000 GbE connection)
Serial Ports	4x RS-232 on Rear IO + RS485/RS422 COM1 only
Audio	7.1 channel audio via 5 jacks and S/PDIF output on rear I/O 2x 15W@4Ω Audio Amplifier (option) 2x 12W@8Ω 15W@4Ω
USB	4x USB 3.0 and 4x USB 2.0 on rear I/O (H81: 2x USB 3.0 and 6x USB 2.0) 1x USB 2.0 on vertical connector with keep out area for dongle
DisplayPort	Q87: 3x outputs with resolution up to 4096 x 2160 @60Hz H81: 3x outputs with resolution up to 4096 x 2160 @60Hz 4x PEG card outputs (optional)
Wifi	(802.11 a/b/g/n)
Add-on Products	ADi-SIOG, ADi-BSEC (options)

Security Overview (options)

Key Lock	mechanical key to permit hardware and software access
Kensington Lock	supports Kensington Lock compatible security solutions
Intrusion Detection	Intrusion switch for ADi-SIOG and ADi-BSEC power-off monitoring and date/time stamping (event logging)
Security Dongle	supports security dongles (options)
Eylet	Eylet for seal
Security Tape	Tamper evident seal (on request)
BIOS Security	TPM, Security BIOS, Software Chain of Trust (sCOT), BIOS customization (options)
Add-on Security	ADi-SIOG and ADi-BSEC security (options)
Covers	Cable and connector covers (on project bases)
GLI	Designed to meet GLI
SEMA Cloud Security	TLS/SSL encryption (option)

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Environmental & Safety

Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-40°F to 185°F) (excl. HDD/SSD/CFast)
Humidity	~85% @ 40°C (104°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

Ordering Informations

Part Number	Model Name	PC Description	Infotainment Description
93-99784-020E	ADi-SA1X-HL-H3	Intel Core i5-4570TE, Q87, TPM, 8GB RAM, 500GB HDD, Win 7 Ultimate 64bit or Linux 64bit, PEG card (E8860), 9-36V DC	ADi-SIOG-HY, ADi-BSEC/8MB, ADi-BAMP, ADi-BDC1, iAPI
93-99780-520E	ADi-SA2X-HL-H1	Intel Core i5-4570TE, Q87, TPM, 8GB RAM, 500GB HDD, Win 7 Ultimate 64bit or Linux 64bit, PEG card (E8860), 9-36V DC	ADi-SIOG-HY, ADi-BSEC/8MB, ADi-BAMP, ADi-BDC1, iAPI
93-99784-150E	ADi-SA1X-HL-E5	Intel Celeron G1820TE, H81, TPM, 4GB RAM, 500GB HDD, Win 7 Ultimate 64bit or Linux 64bit; DC-In: ATX connector	ADi-SIOG-SA, ADi-BAMP, iAPI
93-99780-710E	ADi-SA2X-HL-E3	Intel Celeron G1820TE, H81, TPM, 4GB RAM, 500GB HDD, Win 7 Ultimate 64bit or Linux 64bit, DC-In: ATX connector	ADi-SIOG-SA, ADi-BAMP, iAPI
93-99780-700E	ADi-SA2X-HL-E1	Intel Celeron G1820TE, H81, TPM, 4GB RAM, 500GB HDD, Win7 Ultimate 64bit or Linux 64bit, DC-In: ATX connector, Chassis without coating	ADi-SIOG-SA, ADi-BAMP, iAPI

Optional Accessories

Part Number	Model Name	Description
59-66254-200E	ADi-BSEC	Intelligent Infotainment SECURITY & NVRAM PCI Express Card with 4MB
59-66254-100E	ADi-BSEC	Intelligent Infotainment SECURITY & NVRAM PCI Express Card with 8MB
59-66255-011E	ADi-SIOG-HY	Hybrid Version of Intelligent Infotainment USB I/O Controller Hub
59-66273-001E	ADi-SIOG-SA	Stand-alone Version of Intelligent Infotainment USB I/O Controller Hub
91-95168-000E	ADi-SPSU	Power Supply

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