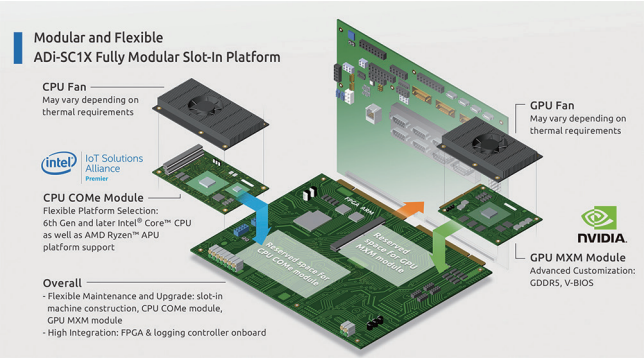
ADi-SC1X

High-Performance Gaming Platform
Fully Modular Slot-In Platform with Backplane Architecture
Supports up to Eight Independent 4K/UHD Displays

Features

- Flexible platform selection: 6th Gen. and later Intel® Core™ CPU and AMD Ryzen™ APU with COMe support
- Flexible maintenance and upgrade: slot-in/backplane design, CPU COMe module, GPU MXM module
- Full-scale customization options: GDDR5, V-BIOS, video ports, I/O ports, etc.
- High level of integration: FPGA & logging controller onboard





Introduction

ADLINK's ADi-SC1X gaming platform with backplane architecture features a wide range of powerful processing and graphics options for gaming applications.

Equipped with a COM Express Type 6 interface and an MXM Type B slot, ADi-SC1X provides superior scalability for all possible use cases and performance requirements.

With the powerful processing performance, advanced security functions, smart middleware solutions, and versatile I/O array, ADi-SC1X fully satisfies the needs of gaming applications.

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
ADi-SC1X 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 COMe CPU and MXM GPU selections.

Multi-Display Graphics Capabilities
ADi-SC1X provides support for up to 4K resolutions and 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
High-speed PCI Express card with up to 64 MB NVRAM. 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 or custom secure BIOS options.

Ordering Information

- **ADi-SC1Xxxxxx**
- **ADi-SA2X-KB-BAAS (call for availability)**

*Other configurations on request

Options

- **ADiAPI**
  Intelligent middleware used for controlling peripheral devices

Optional Accessories

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

Specifications

Model Name	ADi-SC1X (preliminary data subject to change)
Core System	
Processor	COM Express Type 6 up to 65W
Chipset	Dependent on COM Express module
BIOS	Socketed dual AMI uEFI-based BIOS on with Intel® AMT 11.0 support; onboard BIOS socket and SPI header
Expansion Slot	1x M.2 / 1x MXM Type B
Memory	Dual-channel, non-ECC 1333/1600/2133 MHz DDR4/DDR3L memory up to 32 GB in dual vertical SODIMM sockets
Graphics Card	Integrated graphics dependent on COM Express module
	NVIDIA Quadro® P1000 embedded MXM
	Various other MXM options
Storage	3x SATA 6Gb/s (onboard)
	2x HDD/SSD/CFast
	Flexible, field-removable 2.5" drive bay on front panel
	Up to 3x SATADOM support
	1x M.2 (M Key, Socket 3 type)
	3x EEPROM storage support (1x with 3.3V/5V support)
I/O Interfaces	
Ethernet	2x GbE ports (10/100/1000 GbE connection)
Serial Ports	2x RS232/422/485/TTL; 4x RS232; 2x RS232/TTL; 2x RS232/CCTALK
Audio Interface	7.1 channel audio via 5 jacks and S/PDIF output on rear I/O; 7.1 channel audio signals and S/PDIF output via internal header; optional 2.1 Class D amplifier
USB	8 x USB on backplane (USB 2.0/3.0 distribution dependent on chipset)
	2x USB 3.0 on front panel
	2x USB 2.0/3.0 on internal vertical connector
DisplayPort	Up to 4x COMe DP outputs dependent on COM Express module
	4x MXM card DP outputs (optional)
Other	SPI, 1-Wire, I²C, removable EEPROM modules
Gaming-Specific Features and Security	
	NVRAM up to 4x 8MB (battery-buffered)
	Intrusion detection
	Event logging processor (battery-buffered)
	3x high-current outputs
	24 x open drain /40V LED drivers
	32x digital inputs / 32x digital outputs
	8x independent current-sensed hardmeter support
	Key lock, eyelet for sealing, TPM, GLI covers, dedicated security ICs, secure key storage, SHA and AES support
	Fully customizable secure BIOS
Power Supply	
	12V or 24V input (optional)
Mechanical	
Dimensions	292mm (W) x 255mm (D) x 230mm (H)
Operating System Support	
	Windows® 32/64-bit, Linux 32/64-bit (optional)
Environmental & Safety	
Operating Temp.	0°C to 50°C (32°F to 122°F)
Storage Temp.	-20°C to 70°C (-4°F to 158°F) (excl. HDD/SSD/CFast)
Humidity	~ 85% @ 50°C (122°F) (non-condensing)
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

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