ADi-SA6X-RZ-G-E8K

Scalable Gaming Platform Powered by AMD® Ryzen™ Embedded 8000 Series Processors with Support for Up to Four Independent 4K UHD Displays



Features

- AMD® Ryzen™ Embedded 8000 Series Processors
- Up to 4 Independent 4K UHD Displays
- Discrete GPU Expansion Support
- Scalable Gaming Platform Architecture
- Compact Design with Rich Expansion
- Gaming-Grade Security Features
- GLI-11 Ready Design

Ordering Information

ADi-SA6X-RZ-G-E8K	AMD® Ryzen™ 5 8645HS Processor, CPU Cooler, 16GB DDR5 Memory (2x 8GB SO-DIMM), 128GB M.2 2280 PCIe Gen3 SSD

Options

- **ADi-SIOG-FPGA-G2**
  Extension Gaming & Retail I/O controller Module
- **ADiAPI**
  Intelligent infotainment service and utility
- **ADiDLL**
  Infotainment middleware
- **SAS 6.02/6.03 engine**
- **ADLINK's Proprietary Software AGA** (Advanced Gaming Architecture)

Optional Accessories

- **ADi-SIOG-FPGA-G2 Cable Kit**

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Specifications

Model Name	ADi-SA6X-RZ-G-E8K
Core System	
APU	AMD® Ryzen™ 5 8645HS Processor (8845HS/8840U/8640U options available)
Memory	Dual-channel DDR5-5600 ECC/Non-ECC Memory, up to 128GB via two SO-DIMM Sockets
BIOS	AMI EFI BIOS (32 MB SPI), supports BIOS updates via the onboard BIOS socket and SPI header
Expansion Slot	1x PCIe Gen4 x16 Slot (x8 Lanes), 1x PCIe Gen3 x1 Gold Finger (x1 Lane & x1 USB 2.0) 2x M.2 M-Key 2280 (NVMe, PCIe 3.0 x4/x2) 1x M.2 B-Key 2242 (PCIe 3.0 x1 + USB 2.0) 1x External BIOS SPI Header
Graphics	Supports PCIe-based discrete GPUs (e.g., NVIDIA® T1000E). Graphics card not included.
SATA	1x SSD (2.5“) / 1x CFast (via adapter) by storage bracket / Up to 2x SATADOM on MB
Security	Intrusion switch for ADi-SIOG-FPGA-G2 power-off, Security Dongle, Eyelet for seal, TPM 2.0, BitLocker, Software Chain of Trust, BIOS Customization, Cable and connector covers (optional)
I/O Interface	
Serial ATA	2x Serial ATA 6Gbps ports
Ethernet	2x GbE Ports (10/100/1000 Mbps)
Serial Ports	**Rear:** • 1x RS-232/422/485/ccTalk • 1x RS-232/ccTalk **Internal:** • 2x RS-232/TTL • 2x RS-232/ccTalk
USB	• 4x USB 3.0 (Rear) • 4x USB 2.0 (Rear) • 2x USB 3.2 Gen1 Header • 1x USB 2.0 + 1x USB 3.2 Gen1 via Vertical Connector
Display Outputs	4x Display Ports (Resolution up to 4096 x 2160, Optional PEG graphics output support
Audio	
Audio Codec	Realtek® ALC888S
Interfaces	**Rear:** 2.1-channel audio (3 jacks) **Internal:** 7.1-channel + S/PDIF
Power	
Input	+12V ±5% (2x4 mini-fit connector)

Model Name	ADi-SA6X-RZ-G-E8K
Mechanical & Environmental	
Dimensions	208 x 221.34 x 91 mm (W x D x H)
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 70°C
Humidity	85% RH @ 50°C (non-condensing)
Vibration	Operating, 1 Grms, 5-500 Hz, 3 axes (w/ CFast or SSD)
Shock	Operating, 20 G, half sine 11 ms duration (w/ CFast or SSD)
EMC	CE, FCC Class A
ESD	Contact +/-4 KV and Air +/-8 KV
Safety	UL/cUL, CB
SW Support	
Operating Systems	Windows® 11 IoT, Ubuntu Linux

Features Available with ADi-SIOG-FPGA-G2 I/O Controller：

Gaming-Specific Features and Security
Up to 2x 32MB dual independent high-speed MRAM (USB 3.2 Gen1 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
8x 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 support (SPI)
1-Wire support (UID & EEPROM)

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