

Aura⁺

AMD Ryzen™ Embedded V1000
High-Level Gaming Platform

Features

- High-end AMD all-in-one gaming platform
- GLI verified TrustedBoot and TrustedData
- Easy installation and gaming library integration
- Supports up to 9 displays outputs
- Advanced security
- Lifetime 10 years long-term supply



System

APU	AMD Ryzen™ Embedded V1000 SoCs “Zen” CPU Up to Four Cores / Eight threads
Memory	2 x DDR4-3200 SO-DIMM socket support up to 32 GB
BIOS	AMI -uEFI GLI verified TrustedBoot support * Secure hash and public key algorithm validation
Watchdog Timer	1 sec to 255 min
Power Input	DC + 12V to 24V input with 8-pin power connector
Dimensions	280 mm (W) x 222 mm (D) x 218 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption Integrity security - Unique key protection

Communication Interface (I/O)

USB	1 x USB 3.0 (internal) 1 x USB 3.0 in the front 6 x USB 2.0 on backplane
Serial Interface	4 x RS-232 DB9 (1 x RS-422/485 configurable) 4 x RS-232 with box header - 2 x ccTalk configurable 3 x SAS Port, Hardware 9-bit support for SAS6.02
Audio	- HD audio 5.1 channels Line-out - 2.1 channels stereo R/L@16W, Sub@40W audio amplified output
Storage	- 2 x SATA III, Pin-7 Power supply SATADOM supported 2 x CFast socket in front - 256Bytes user EEPROM storage - 1 x removable driver bay for 2.5” HDD (Optional, and share with SATA 2)
Ethernet	2 x GbE LAN port on backplane
SPI/ I2C	Header on backplane

Gaming Function

Intrusion Detection	14 x intrusion detection (13 x backplane, 1 x external) Operates without AC Power (Battery backup). Logs date/time of last 200 events Battery voltage monitor
Digital Input	64 x protected 3V / CMOS input 4 x DIP switch
Digital Output	61 x 1A/30V, Open Drain power MOSFET driver (8x meter configurable) 3 x 3A/30V, Open Drain power MOSFET driver
NVRAM	Up to 16MB of NVRAM, optional MRAM up to 4MB; Battery backed SRAM, continuous working time of 18,000hrs; Support battery voltage monitor; TrustedData, hardware bank mirroring and CRC

Display

Graphic	AMD Radeon™ VEGA GPU, up to 11 compute units
Interface	4 x DP++, up to four independent displays
Optional Discrete Graphic	Support AMD Embedded Radeon™ E9260 MXM 3.0 Type B graphic module for 5 MiniDP output

Software

OS	Windows® 10 IoT Enterprise , Linux
Gaming API	Example code and demo software available
Communication & Peripheral Protocols	SAS 6.02 COM port driver



* All specifications and photos are subject to change without notice.

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