

Quixant

QXi-200 Fusion Powered Gaming board

- All in one PC based gaming controller
- High performance graphics based on AMD Fusion technology
- Dual independent display outputs
- Passively cooled enclosure (patent pending)
- SRAM, Digital I/O, Audio amp and strong security built in



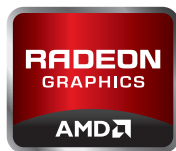
High Performance, low Power, Low Cost

AMD Embedded G-Series Fusion APU delivers the highest levels of graphics performance, DirectX® 11, Open GL® 4.1, Open CL™ 1.1



Dual Independent Monitors

Dual DVI connectors give optimum picture quality on two screens (1xDVI-I + 1xDVI-D). Full seamless High Definition playback on two screens



Complete Cased solution

Patented case design enables fan less solution for ultimate reliability and low noise

Comprehensive gaming features

Two banks of SRAM, digital inputs and outputs, audio amplifier, multiple layers of security and intrusion detection

Market compliance

Meets the requirements of GLI-11 and all other global gaming jurisdictions

Complete Software suite

Device drivers, gaming protocols including SAS 6.02, BIOS extensions and encryption tools. Full support for Windows and Linux based operating systems



Compatibility

Backward compatible with QXi-100

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QXi-200 Features

www.quixant.com sales@quixant.com

General Features

Complete boxed gaming solution
Revolutionary AMD "Fusion" APU technology
Passive cooling for reliability
Embedded roadmap = 5+2 years availability
Single +12V (nominal) power input
Compact design - 280x186x87mm
Complete system solution, including software

APU

AMD Embedded G-Series processor
Advanced "Fusion" architecture integrates CPU and GPU

- 1.65GHz Dual Core and 1.5GHz Single Core options
- 64-bit AMD64 next generation "Bobcat" low power core
- Per Core 64KB L1 and 512KB L2 caches
- Out of Order (OoO) execution and AMD Virtualization™
- MMX™, SSE1,2,3, SSSE3 ISA, SSE4A support

Memory

2 x DDR3-10600 (1333MT/s) SODIMM sockets
1GB to 8GBytes main memory

Graphics

High performance ATI Radeon HD6320/HD6310 graphics
Dual independent displays

- AMD EyeFinity multi-display technology
- 1 x DVI-I (analogue or digital), 1 x DVI-D (digital)
- Support for resolutions up to 2560 x 1600

Highly optimised 128-bit 2D graphics engine

- Microsoft DirectDraw® support

Advanced 3D graphics accelerator

- DirectX® 11 (SM5.0), OpenGL 4.1 support

AMD Accelerated Parallel Processing (APP) technology

- OpenCL™ 1.1 and DirectCompute 11 support
- Accelerated video encoding, transcoding and upscaling

Advanced UVD3 dedicated playback accelerator for:

- MPEG-2 (SD & HD)
- MPEG-4 H.264/AVC and MPEG-4 Part 2 (DivX, Xvid)
- VC-1 and WMV
- MultiView Codec (MVC)
- Adobe Flash

Communication Interfaces

6 x serial ports

- 16550 compatible
- Hardware 9-bit data support
- RS232, RS485, ID003, TTL and dual cctalk interfaces

2 x PCI Express® Gigabit LAN controllers
4 x USB2.0 ports
SPI interface for clock serial peripherals (e.g. SEC meter)
I²C Interface
iButton interface

Power Requirement

Simple single 12V nominal input

- No extra ATX PSU - uses standard cabinet PSU
- Typical 20W power consumption (running 3DMark06)
- Low 10W typical Windows desktop idle consumption

Storage

2 x Compact Flash sockets

- Ultra DMA transfers up to UDMA6
- Transfer rates up to 133MByte/s

2 x SATA 2.6 (3Gbps) ports for flash or disk drives

- RAID 0, 1, 5 and 10 support

32Kbytes of user EEPROM storage (optional up to 128Kbytes)

Gaming Hardware

Battery powered logging processor

- 8 intrusion inputs (4 available externally)
- Supports standard and opto switches
- Date/time stamped recording of 64 events
- Auto system switch on (time based)
- Programmable watchdog timer
- Battery voltage monitoring & warning

Up to 8MBytes of battery backed SRAM

- Ultra-fast 32-bit, 33MHz operation
- Dual independent physical banks
- 5-year battery life
- Optional Lithium Pentoxide rechargeable cells

Unique electronic serial number

Digital I/O

32-bit, 33MHz direct PCI I/O interface for low overhead
32 digital inputs

- Individual, programmable interrupts
- Trigger on rising or falling edges or both
- Input pulse width measurement and screening

32 digital outputs

- 24 off 50V 350mA open drain
- 4 off 50V 3A open drain, 4off TTL Output

Security

Ultra-fast hardware AES decryption engine
Secure key storage - no external access
Guaranteed unique serial number

Audio

High Definition Audio

- AC-3, AAC, Dolby TrueHD, DTS Master Audio support
- Stereo line in & line out
- Built-in stereo 18W (RMS)/channel digital amplifier
- Direct drive of 4ohm speakers

Software

Full driver support for Windows Embedded and Linux
Quixant supplied communication & peripheral protocols

- cctalk
- SAS 6.02
- JCM ID003
- MEI
- Futurelogic
- GPT
- Suzo
- Money Controls
- Ithaca
- Others being developed

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