

# Quixant

## QX-30: THE ULTIMATE GAMING MACHINE PLATFORM

- **The most advanced PC based gaming platform available**
- **Unique 4 monitor drive capability with extreme graphics performance.**
- **Full software support for easy development**
- **Meets GLI and other major gaming standards**



### 5+ Years Guaranteed Supply

The QX-30 uses the latest CPUs, chipset and graphics processors from AMD/ATI's guaranteed lifetime embedded program



### High Performance CPUs

Single and dual-core 64-bit CPUs. Speeds from 1GHz to 2.6GHz and above. Power from 8W to 45W. Future CPU compatible.



### ATI® Radeon HD3200 Graphics

DirectX 10, SM4 Graphics Controllers. Advanced 3D graphics. Hardware video decoding, including High Definition (H.264 & VC-1). The fastest embedded graphics available - period!



### Complete Gaming Hardware

Up to 8MBytes of fast, 32-bit battery backed SRAM in two banks. Logging processor with 64 events. Hardware PCI AES decryption engine with secure keys.

### Unrivalled communications

Eight PCI Express serial ports with 128Byte FIFOs and hardware 9-bit support. RS232, RS485, cctalk and ID003. Dual Gigabit LAN interfaces, I<sup>2</sup>C and SPI.

### Fast, flexible digital I/O

Up to 64 interrupt driven digital inputs & outputs with "bulb fail" detection and pulse width detection/screening Complete OS, driver and protocol support Windows XP Embedded and Linux 2.6.x. Protocol support for gaming peripherals. SAS 6.02, cctalk.

# Can you afford not to?

[www.quixant.com](http://www.quixant.com)

# QX-30 Features

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## General Features

Embedded roadmap = 5+ years availability  
Passive cooling for reliability  
Single +12V (nominal) power input  
Meets the requirements of major gaming jurisdictions  
Complete system solution, including software

## CPU

AMD Embedded Single and Dual core CPUs  
AMD Athlon 64-bit CPUs  
Speed grades from 1.0GHz to 2.6GHz and above  
Low power consumption – from 8W to 45W options

## Memory

Up to 4GBytes DDR2-1066 main memory, 128-bit bus

## Graphics

Option of Single, Dual, Triple or Quad independent displays  
Digital display drive – DisplayPort/DVI/HDMI  
Universal Video Decoder supports decode of standard & full HD video

- MPEG2, H.264/AVC, VC-1 hardware decode

Full DirectX 10.0, SM4.0 and OpenGL 2.0 support  
Integrated HD3200 Graphics Controller

- 128, 256 or 512MB of shared memory
- Optional 128MB of GDDR3-800 Sideport Memory
- Dual display outputs
- 3DMark06 > 2000

Discrete ATI® E2400 PCI Express® Graphics Controller

- 128MB dedicated GDDR3 memory
- Dual display outputs (in addition to dual integrated)
- Can be operated in parallel with internal GPU
- ATI® Hybrid Graphics Technology

## Communication Interfaces

8 x PCI Express® serial ports

- 16450/16550/16950 compatible
- Per port 128-byte transmit & receive FIFOs
- Hardware 9-bit protocol support
- RS232, RS485, ID003, TTL and dual cctalk interfaces

2 x PCI Express® Gigabit LAN interfaces  
8 x USB2.0 ports  
SPI interface for clock serial peripherals  
I<sup>2</sup>C interface  
iButton interface

## Storage

2 x Compact Flash sockets

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

2 x SATA2.5 (3Gbps) ports for disk drives  
32Kbytes of user EEPROM storage (optional up to 128Kbytes)

## Gaming Hardware

Battery powered logging processor

- 8 intrusion inputs
- Supports standard and opto switches
- Date/time stamped recording of 64 events
- Auto system switch on (time)
- 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

## Security

Ultra fast hardware AES decryption engine  
Secure key storage – no external access

## Digital I/O

32-bit, 33MHz direct PCI interface for low overhead  
Up to 64 digital inputs

- Individually configurable for interrupt generation
- Trigger on rising or falling edges or both
- Input pulse width measurement and screening

Up to 64 digital outputs

- Variety of drive configurations available
- Output overload protection
- Detection and reporting of open and short circuits (Blown bulbs and failed peripherals)

## Audio

High Definition Audio

- 5.1 Audio channels
- Built-in stereo 18W/channel digital amplifier

## Software

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

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

## BIOS

- Full customization and security

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