

Quixant

Unleash  
your gaming  
brilliance

iQON

Elite performance.  
Endless possibilities.



## Unleash your creativity on the IQON from Quixant

The IQON is a versatile and powerful all in one platform able to manage a wide range of game complexities. This fanless model is a high-performance solution with full I/O capabilities, which enhances game performance.

The platform includes the market leading Quixant Software Hub, game optimising solutions which will enable you to unleash your creativity and focus on delivering extraordinary game content. With more features and benefits inside the IQON, this premium solution gives you the perfect platform to develop and deliver your market-leading games in record time.



### Why the IQON?

#### A powerful and versatile all in one platform able to manage a wide range of game complexities

Integrating advanced I/O, NVRAM and including Quixant's entire Software Hub offering, the platform enables you to develop exceptional content, seamlessly integrate all elements of your game and launch them to the market in record time.

#### Efficient fanless design

A physically compact platform which prevents dust accumulation and therefore reduces the need for maintenance.

#### Unrivalled CPU and graphics processing power

Enabling you to deliver higher resolution content and a smoother game play experience.

#### Ensures regulatory compliance across markets

A compliant solution that meets the requirements of all major global gaming jurisdictions, including GLI-11, so you can focus on enhancing the player experience, not developing security solutions.

#### 5-year supply lifetime

Confidence in a reliable and powerful solution that will be supported and delivered for 5+ years, so you don't have to worry about hardware and can focus on developing the best games on the market.

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Explore how Quixant will enable you to focus your development efforts on enhancing the player experience and launch world-class leading products in record time.

# IQON Features

## Processing Unit

- AMD Ryzen™ Embedded V1605B SoC
- Quad 64bit Zen Cores
- Multithreaded architecture supports up to 8 threads
- Quad core configuration
- Supports frequencies up to 2.0GHz (3.8GHz with boost)
- Up to 2MB L2 cache and 4MB L3 cache

## Integrated GPU

- Integrated AMD Radeon™ Vega 8 Graphics
- Drives up to four 4K Ultra HD monitors from the APU with support for DisplayPort 1.4
- Up to 8 compute units
- Hardware accelerated 4K video encoder/decoder

## Main Memory

- 2 x DDR4, 2400 SODIMM sockets
- Up to 32GB main memory

## Core

### NVRAM

- Fast 64bit PCI Express® interface
- Up to 4MB of NVRAM – two independent physical banks
- Battery backed SRAM
- Hardware accelerated memory bank mirroring, copying, verification and CRC support
- 5-years battery life

## Up to 32 digital inputs

- Configurable hardware debounce filtering
- Input pulse width screening for pulse devices

## Up to 32 digital outputs

- Detection and reporting of open and short circuits
- Output overload protection
- Electromechanical meters handling
- 24 x 50V 350mA open drain with overload protection
- 4 x 50V 3A open drain
- 4 x TTL level

## Communication Interfaces

### 6 x serial ports

- 2 x RS232 full
- 2 x RS232 Tx/Rx – SAS hardware support
- 1 x JCM ID003 (optional)
- Up to 2xccTalk
- 1 x RS485 (optional)
- 2 x PCI Express® Gigabit LAN interfaces
- 4 x external USB ports (2 x USB 3.1, 2 x USB 2.0)
- 4 x USB 2.0 pin header inside the case
- 1 x SPI header for clock serial peripherals (e.g. SEC meter) or LED strips
- 1 x I<sup>2</sup>C interface
- 2 x iButton interface

## Illuminate

- Up to 4 x LED strip interfaces (to drive up to 4000+ RGB LED or up to 60FPS)

## Storage

- 2 x CFast sockets up to 6GB/s
- 2 x SATA3 sockets up to 6Gb/s (SATA DOM, SSD, HDD)
- 2Kbits of user EEPROM storage (optional up to 128Kb)

## Authenticate

- TPM 2.0 (option)
- Unique electronic serial number
- 1Kb EEPROM with SHA-1 engine

## Protect

- Metal case with keylock
- 13 x monitored intrusions including jumpers' supervision
- Embedded HW AES256 engine, ECB and CBC

## Audio

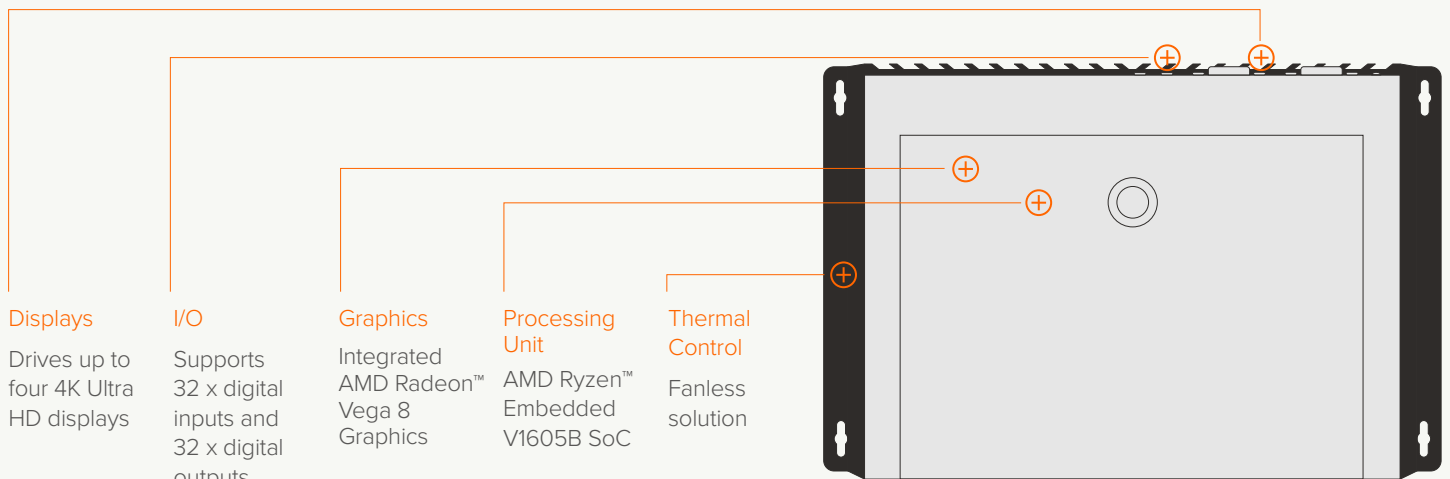
- Integrated HD audio controller 7.1 Audio Channels
- 2 x stereo 18W/ channel 4-Ohm digital amplified outputs

## Debug


- Hardware debugging system via ethernet interface
- Temperature, fan and voltages supervision

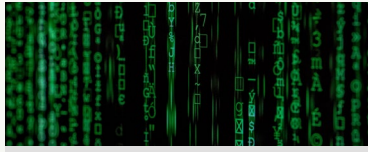
## Power Requirement

- Operating voltage: 12V / 24V



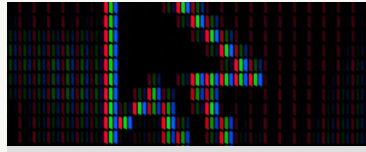
The game optimizing software solutions enabled on the IQON gaming hardware platform are:

 Development Solutions



DEBUG

Quixant's Debugging Solution

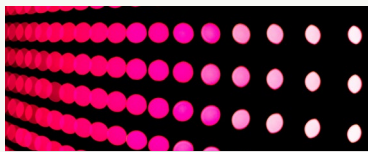


PLAY

Quixant's Video Content Solution

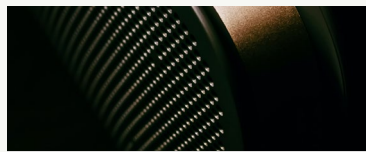


 Multimedia Solutions



ILLUMINATE

Quixant's Cabinet LED solution

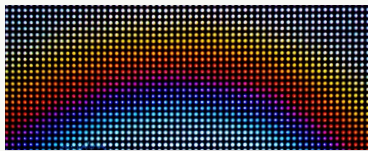


AMPLIFY

Quixant's Audio Amplification Solution

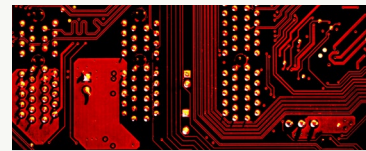


 Security Solutions



BOOT

Quixant's Secure BIOS Solution



AUTHENTICATE

Quixant's Authenticity Solution

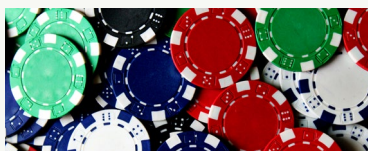


PROTECT

Quixant's Suite of Security Solutions



 Protocol Solutions



G2S

Quixant's G2S Solution



SAS

Quixant's SAS Solution



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