

QUIXANT

iQON³AIR[®]

Elite performance.
Endless possibilities.



Unleash your creativity with the IQON 3 Air[®]

The IQON 3 Air[®] expands and enhances our IQON[®] portfolio – supplementing the fanless IQON 3[®] to provide an actively cooled solution with even greater processing power, sustained performance and exceptional value for money. As our most powerful IQON[®] platform, it is designed for developers who require maximum processing power, advanced graphics capability and long-duration peak performance.

Powered by the latest AMD[®] processors and intelligent active cooling, the IQON 3 Air[®] is purpose-built for customers who demand a platform tailored for high-intensity game content and graphically rich experiences.

With advanced cooling and expanded thermal capacity, the IQON 3 Air[®] delivers even higher sustained performance than the fanless IQON 3[®], making it ideal for graphics-rich, CPU-intensive games. Its innovative feature set provides a powerful platform to create market-leading game content and bring it to market faster.

Easy to integrate into cabinets or kiosks, the IQON 3 Air[®] boosts performance, efficiency and long-term value while meeting global regulatory requirements.

Like all of our hardware platforms, the AMD[®]-based IQON 3 Air[®] includes our Essential and Enhanced Software Suite, giving you a complete, ready-to-deploy system so you can focus on creating engaging, long-lasting player experiences.

A versatile, actively-cooled platform that builds on the IQON 3[®]

Delivering even higher sustained performance than the fanless IQON 3[®], the IQON 3 Air[®] provides increased thermal headroom, advanced I/O, battery-free MRAM, additional USB, alongside a dedicated embedded LED strips controller.

It supplements the IQON 3[®] offering for game developers who require boosted processing power and extended performance stability.

Ryzen[™] 8000 AMD[®] Processors and unrivalled CPU, NPU and graphics power

Powered by AMD[®] Ryzen[™] 8000 series processors with Zen 4 core architecture and RDNA[™] 3 graphics built on AMD's 4nm process technology, the IQON 3 Air[®] pairs cutting-edge CPU performance with industry-leading integrated graphics. Ryzen 8000 delivers lightning-fast responsiveness, superior multitasking, AI acceleration and unmatched energy efficiency.

Active cooling engineered for maximum performance

The IQON 3 Air[®] features a high-efficiency active cooling system designed for continuous, high-load operation in challenging gaming environments. The optimised airflow and intelligent fan design unlock higher thermal headroom, ensuring reliable peak performance even during long-duration gaming sessions or intensive graphics workloads.

Regulatory compliance across global gaming markets

Fully compliant with the requirements of all major global gaming jurisdictions – including GLI-11 – so you can focus on delivering exceptional gaming experiences without worrying about regulations.

10-year supply lifetime for long-term reliability

With a guaranteed 10+ year supply commitment, the IQON 3 Air[®] offers a dependable, future-proof hardware foundation – allowing you to concentrate on developing world-class content and bringing innovative cabinets or kiosks to market quickly and cost-effectively.

Processing unit

- AMD Ryzen™ 5 / 7 PRO R8000 Series

Integrated GPU

- Integrated AMD Radeon™ 7x0M
- Drives up to four 4K Ultra HD displays
- Support for DisplayPort 1.4
- Accelerated hardware video decoder

Main memory

- 2 x DDR5, 5600MT/s SODIMM sockets
- Up to 64GB total main memory

LAN / USB

- 2 x PCI Express® Gigabit LAN interfaces
- External USB
 - 4 x USB 3.2 ports front
 - 4 x USB 2.0 ports on the side
- Internal USB
 - 2 x vertical USB-A (1x USB3.2 + 1x USB2.0)
 - 2 x USB 2.0 pin header

Storage

- 2 x CFAST 2.0 sockets
- 2 x SATA3 sockets
- 1 x M.2 sockets NVMe Gen4x4
- 2Kbits of user EEPROM storage (optional up to 128Kb)

Power requirement

- Operating voltage: 12V

Serial communication

- 6 x serial ports
 - 2 x RS232 full
 - 2 x RS232 Tx/Rx
 - Up to 4 x SAS interfaces
 - 1 x JCM ID003
 - 2 x ccTalk
 - Up to 1 x RS485
 - Up to 2 x iButton interfaces
- 1 x SPI header for clock serial peripherals (e.g. SEC meter)
- 1 x I2C interface

Audio

- Integrated HD audio controller 7.1 audio channels
- 2 x stereo 15W/ ch. 4-Ohm digital amplified outputs

System features

Essential

GPIO

- Up to 32 digital inputs
 - Efficient and responsive handling of digital inputs
 - Hardware support to eliminate bouncing of input lines
- Up to 32 digital outputs
 - Presence detection of electromechanical meters

Intrusion Management

- 11 x monitored intrusions
- System even logging
- High precision real time clock
- Watchdog timer

System features

Enhanced

NVRAM

- Fast 64bit PCI Express® interface
- 4MB of NVRAM – two independent physical banks
- MRAM – No need for Battery
- Memory bank mirroring, copying, verification and CRC support
- Protected NVRAM area

QSys and QSensor

- Temperature and voltages monitoring
- Automatic battery health check

Illuminate

- Up to 6 x LED strip interfaces, up to 3000 LED total
- Drives 1-wire and 2-wires LED strip
- Up to 9 x PWM output for brightness control

Authenticate

- TPM 2.0
- Unique electronic serial number
- 2kb protected EEPROM with SHA-3 engine

Protect

- Metal case with keylock
- Active handling and monitoring of storage write protect changes
- Embedded HW AES256 engine with secure keys management



The ultimate hardware platforms. Integrated software on board.

Unleash your creativity and develop with confidence on Quixant's market-leading hardware platforms. They come with our Software Suite solutions as standard, with Essential and Enhanced features. Designed with the requirements of the gaming and sports betting industries in mind, they have been created so you can benefit from these onboard, specialist software solutions, and spend your time optimizing content that keeps your customers engaged and entertained for longer, leading them to return again and again.

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

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