# iQON³®

Elite performance.
Endless possibilities.

# IQON³ ®

# Unleash your creativity with the IQON 3®

The flagship of our IQON® range, the IQON 3® leads the way with an AMD® processor that gives outstanding performance. A multitude of innovative features and benefits inside the IQON 3® make it the platform of choice to develop market-leading game content and launch them in record time.

Easy to integrate into your cabinet or kiosk with a number of mounting options, this fanless all-in-one hardware platform will allow you to increase the performance of your products, enhancing the customer experience, whilst ensuring regulatory compliance.

Like all of our reliable and powerful hardware platforms, the AMD® based IQON 3® comes with our effective integrated Software Suite solutions as standard, with Essential and Enhanced features. Designed with the requirements of the gaming industry 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.

## A powerful and versatile all-in-one platform able to manage a wide range of game and sports betting requirements
Delivers twice the performance of the existing IQON® products, integrating advanced I/O, battery-free MRAM, additional USB and a dedicated LED strips.

## Ryzen 8000 AMD® Processors and unrivalled CPU and graphics power
Experience the next evolution of computing power with the AMD® Ryzen™ 8000 series processors, where cutting-edge CPU performance meets best-in-class integrated graphics. Powered by the advanced Zen 4 architecture and built on AMD's 4nm process technology, Ryzen 8000 delivers lightning-fast responsiveness, superior multitasking and unmatched energy efficiency.

## Efficient fanless design
The IQON 3® fanless PC is purpose-built for the demanding environments of casino and gaming machines, delivering exceptional thermal efficiency and silent operation without compromising performance. Engineered with a rugged, passively cooled chassis and optimized airflow design, this solution ensures consistent uptime in gaming cabinets where space, dust, and noise are critical concerns.

## Regulatory compliance across global gaming markets
A compliant solution that meets the requirements of all major global gaming jurisdictions, including GLI-11, so you can focus on enhancing the customer experience, without the worry of regulatory compliance.

## 10 year supply lifetime for reliable performance
Confidence in a reliable and powerful solution that will be supported and delivered for 10+ years, so you do not have to worry about hardware and can focus on developing the best content and bringing your exceptional cabinet or kiosk to market in record time.

# iQON³®

## 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.