



# DFI

## DFI HPT171 Mini-ITX Motherboard: Revolutionizing Sports Gaming Through Advanced AI Computing

The sports gaming kiosk market has experienced remarkable growth, according to a recent report by market research, market size estimated at USD 2.13 billion in 2025 and projected to reach USD 2.95 billion by 2030, representing a robust CAGR of 6.71%. This expansion is driven by the development of immersive gaming kiosk applications, increasing convenience of gaming on kiosk devices, and ongoing global liberalization of sports gaming regulations. Europe leads this transformation with a 38% market share, followed by North America at 32%, as favorable legislation and innovative kiosk technology reshape the industry landscape.

# Challenges - Infrastructure Demands Driving Seamless Sports Gaming Experiences

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The sports gaming sector encounters multifaceted operational and technological challenges that require strategic solutions to ensure optimal performance and user satisfaction. These challenges span across operational infrastructure management and end-user experience delivery, each presenting unique requirements that demand comprehensive attention.

## Operator Challenges

Modern gaming operators face increasingly complex technical and regulatory demands in today's competitive marketplace:

- Managing the proliferation of edge computing requirements that create new infrastructure pressures across diverse platform ecosystems.
- Maintaining consistent performance standards and system stability during peak usage periods across kiosks, terminals, and online platforms.
- Delivering real-time data distribution capabilities for instantaneous odds calculations and match information updates across terminal networks.
- Ensuring strict adherence to licensing requirements and compliance protocols while maintaining operational efficiency.
- Implementing robust governance frameworks that meet stringent legal standards for all gaming kiosk operations.

## End User Challenges

Gaming participants encounter various technical and security-related concerns that directly impact their engagement and trust levels:

- Experiencing performance latency and system responsiveness issues that significantly compromise real-time gaming experiences.
- Dealing with data accuracy and timeliness problems where outdated or incorrect odds and match information result in suboptimal decision-making.
- Facing security apprehensions regarding fraud detection, system vulnerabilities, and inadequate real-time threat identification.
- Managing concerns about data privacy and financial information protection, combined with licensing transparency issues.
- Encountering the absence of immediate technical support during critical gaming or transaction moments, which undermines user trust and leads to customer dissatisfaction.



## Smarter Gaming with AI: Empowering Operators and Engaging Players

### Operators

- Predicted odds trend
- Historical order data analysis
- Anomalous risk status monitoring

### Players

- Personalized advertising
- Customer service chatbot (IA)
- Personal order/data security

## AI Power Unleashed: AMD XDNA Architecture Fueling Smarter, Faster, More Immersive Gameplay

At the heart of the HPT171's superior performance lies the AMD XDNA AI architecture, which boosts game AI performance for quicker decision-making and more realistic behaviors. With up to 39 TOPS of computing power, games benefit from smooth and real-time AI processing that transforms the user experience. The integrated 16 TOPS NPU accelerates neural network operations, improving in-game intelligence and responsiveness to create truly dynamic gaming environments.

This computational power enables DFI's agile gaming solutions that allow rapid adaptation to player demands and market trends. Online sports gaming operators can now bring the thrill of live sports competitions directly to players' fingertips with unprecedented reliability and performance.

# Powering Immersive Ecosystems: A Unified Platform for Seamless, Intelligent Gaming

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The HPT171 excels in sports gaming environments, fostering competitive communities and professional-level tournaments worldwide through its robust processing capabilities. Real-time data feeds power dynamic game updates and accurate live scoring, while integrated payment gateways provide secure and instant transactions for in-game purchases.

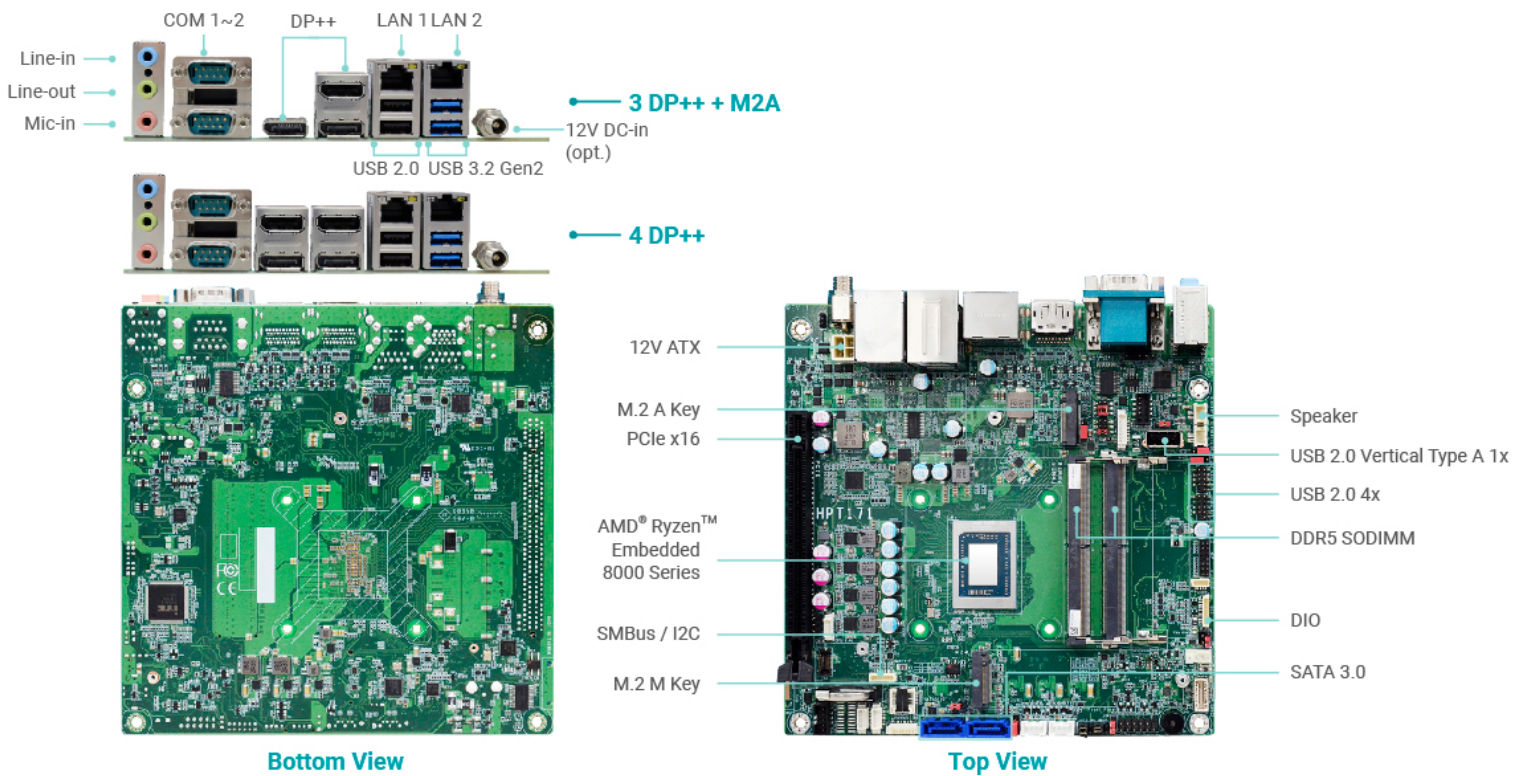
DFI's comprehensive gaming ecosystem leverages cutting-edge hardware specifications, including support for up to 4 multiple displays, PCIe Gen4 technology, and robust Ethernet I/O connectivity to create flexible, high-performance solutions that transform gaming operations. The 4 multiple display support enables immersive electronic multi-player table games with individual player interfaces across casino floors, while PCIe Gen4 technology delivers superior bandwidth for real-time odds updates and seamless multiplayer synchronization during peak periods. Combined with a comprehensive Ethernet I/O infrastructure, this platform supports dynamic casino signage with live content updates and reliable network communications, creating engaging group experiences that enhance player satisfaction, eliminate system lag, and drive increased revenue generation across diverse gaming applications.

The HPT171's advanced connectivity ensures that slot machines, cashier kiosks, ATMs, and ticket kiosks are interconnected to provide seamless cash handling and ticket redemption processes. Player tracking systems enable personalized rewards and targeted promotions by monitoring activity across games, venues, and POS touchpoints.

## Advanced Security and Downtime-Reducing Capabilities

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Security remains paramount in gaming applications, and the HPT171 incorporates advanced security features, including TPM 2.0 for comprehensive data protection. With support for DFI's Out-of-Band (OOB) management, the system enables operators to perform remote diagnostics, reboots, and firmware updates via an independent channel—even when the primary system is unresponsive or offline. This capability is essential for distributed deployments and fast, efficient maintenance, significantly reducing downtime and lowering operational costs. AI computing and machine learning capabilities improve gaming by enabling smarter decisions and personalized experiences, while data analytics help operators understand player behavior and optimize gameplay strategies. Real-time statistics provide instant updates during live events, boosting player engagement and creating more dynamic gaming environments.

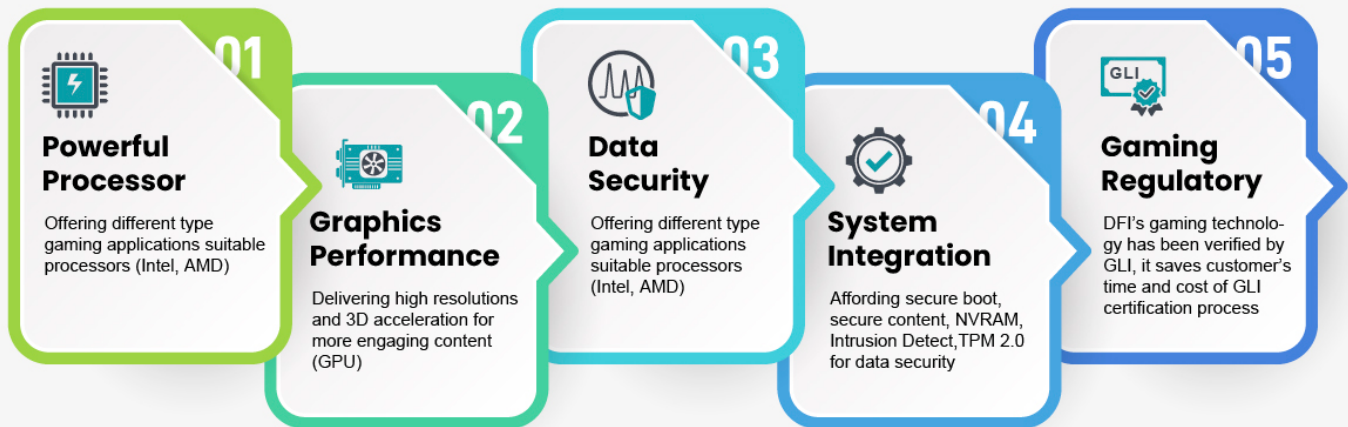


## Scalable, Future-Proof Technology for Next-Generation Gaming Applications

DFI goes beyond delivering high-performance motherboards—its strength lies in offering [Agile Gaming Solutions](#) that combine advanced security, flexible design, and industry certification readiness. With robust data protection features such as secure boot, content encryption, NVRAM, intrusion detection, and TPM 2.0, DFI ensures trusted system integrity in gaming environments. Its highly customizable hardware and software architecture—including support for APIs, FPGA programming, and BIOS tuning—gives developers the tools to fine-tune performance and functionality to meet specific application needs. Additionally, DFI's GLI-preverified gaming technology helps customers streamline the certification process, saving valuable time and reducing costs when entering regulated markets.



# Leveraging DFI's Sector-Specific Expertise in Gaming Innovation



DFI offers comprehensive system design capabilities for gaming applications, encompassing cabinet integration, LCD panel configuration, AI-ready graphics and computing board customization. Leveraging its extensive full-system design expertise, DFI enables rapid and precise customization to meet diverse deployment requirements.

Our Agile Gaming Solutions power a wide array of mission-critical gaming and entertainment platforms, ranging from casino slot machines and multiplayer roulette systems to Amusement with Prize (AWP) games, video lottery terminals (VLTs), bingo machines, player tracking systems, and sports gaming kiosks. Backed by deep expertise in industrial-grade motherboard engineering, we go far beyond hardware supply. We provide **comprehensive system design, integration, and manufacturing services**—from precision board-level customization to full turnkey assembly. Our end-to-end capabilities empower gaming operators and OEMs to deploy scalable, reliable, and fully tailored solutions that align with global market demands and regulatory standards.





Founded in 1981, DFI is a global leading provider of high-performance computing technology across multiple embedded industries. With its innovative design and premium quality management system, DFI's industrial-grade solutions enable customers to optimize their equipment and ensure high reliability, long-term life cycle, and 24/7 durability in a breadth of markets including factory automation, medical, gaming, transportation, smart energy, defense, and intelligent retail.

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