ADVANTECH

POCKET GUIDE

DPX® GAMING SOLUTIONS

DPX®-S Series

Fully Featured Gaming Platform

Our DPX®-S Series products provide highly integrated industrial single board computers and systems with an unrivaled performance range, scalability, long lifecycle and low power consumption.

Feature Highlights:
• Intel® and AMD CPU options
• Scalability of CPU and graphics
• Full set of I/Os, COMs and security features
• Chassis option

DPX®-J Series

Integrated Gaming Platform

Our DPX®-J100 uses AMD's latest cost effective dual and quad core SoC devices with 'discrete-level' graphics from the best-in-class integrated VEGA graphics core.

Feature Highlights:
• AMD Embedded V & R Series SoC APUs
• Radeon™ VEGA GPU
• Full set of I/Os, COMs and security features
• Common 72/20 pin definition adapter cards available
• 3x monitor support

DPX®-E Series

Cost-effective Gaming Platform

Our DPX®-E Series is a very cost-effective solution without a compromise on performance. Sharing the same API as other DPX® product lines, the gaming functions and easy integation solution is ideal for many gaming applicatons.

Feature Highlights:
• Intel® and AMD CPU options
• Performance at a cost-effective price point
• Full set of I/Os, COMs and security features
• Best in class integrated graphics performance

DPX®-M Series

Modular Multimedia Gaming Platform

Our DPX®-M Series products are high performance multimedia engines with a modular expansion bus allowing additional units to be added for bespoke performance, such as I/O, COMs, security and specialised interfaces.

Feature Highlights:
• Modular side expansion bus
• Intel® and AMD CPU options
• Full set of I/Os, COMs and security features
• Chassis options available

ODM

Custom Designed Gaming Platforms

Our expert design team can custom design gaming platforms based on specifications to deliver sophisticated or simple custom designs for gaming industry OEMs who require a bespoke gaming platform.

Feature Highlights:
• Collaborative design approach
• Intel® and AMD chipsets solutions
• Custom software, firmware, BIOS and OS
• In-house design validation

Motherboards

Embedded Industrial Motherboards

Our range of embedded industrial motherboards and systems provide proven high reliability and longevity, support a comprehensive range of OS platforms and support Mini-ITX, Micro ATX, COM Express 3.5/2.5 inch ESBC (x86 and RISC based).

Feature Highlights:
• Various industry standard form factors
• Acclaimed DMS and customisation services
• Win IoT software platform services
• Comprehensive range of OS supported

ADDITIONAL PRODUCTS

DPX®-LED Controller

Bespoke Lighting Control

Our LED Controller allows developers to bring ideas and visions to life on the casino floor. Complemented by an easy to use UI, FadeCandy support and USB connectivity, the DPX-LED Controller is the perfect tool for gaming cabinets.

Feature Highlights:
• Control up to 4096 individual LEDs
• Supports 12V or 5V LED
• User Configurable:
  ◦ 16x 1-Wire channel, or
  ◦ 8x 2-Wire LED channels

Peripherals

Full Range of Gaming Peripherals

Our range of gaming peripherals offer specialised, quality components with long lifecycle support for our gaming platforms. All peripherals are fully compatible with Advantech DPX gaming boards and systems.

Range Includes:
• Storage Media
• RAM modules
• iButtons
• Enclosures
• Embedded OS licenses
• Backplanes & connector boards

Graphics Cards

High Perfomance Graphics

We offer a range of high performance graphics cards ideal for embedded computing applicatons from Nvidia®, Intel® and AMD. PCIe x16 and MXM format, low profile and fanless passive cooled models.

Feature Highlights:
• Nvidia®, Intel® and AMD options
• PCIe x16 and MXM format
• Low profile
• Fanless passive cooled options

SOFTWARE

DISPLAY SOLUTIONS

Software Solutions

Accelerated Development Cycles

Alongside our highly robust board support packages, we offer a variety of software products for peripheral protocol libraries, security suites, diagnostic and test software to help develop the best-balanced gaming solutions.

Feature Highlights:
• Faster development turnaround
• Bespoke software packages
• Non-intrusive diagnostic and test software
• Edge-to-edge coverage for hardware

Gaming Displays

Customisable Gaming Monitors

We provide full featured gaming displays specially desgined for gaming applications. Touchscreen or standard displays that are ideal for slots, lottery, sport betting terminals and kiosks where vivid colour and interaction are key.

Feature Highlights:
• Wide range of screens and sizes
• Curved options
• Interactive button decks
• LED bezel models available

AI/Digital Signage

Enhanced Visual Touchpoints

Our range of AI and digital signage solutions offer high performance and stand out visual aids to help grab the attention of customers. AI systems are based on Nvidia® Jetson Nano / TX2 & Xavier NX and AGX Orin embedded platforms.

Feature Highlights:
• Multiple I/O and expansion options
• Mini-ITX with integrated NVIDIA® T1000
• Supports up to 9 displays
• High-performance 4K content graphics

GAMING OPTIMISED PLATFORMS

ADVANTECH

Gaming Platforms & Systems

- Regulated Gaming
- Slot Machines
- VLT
- AWP
- Street Gaming
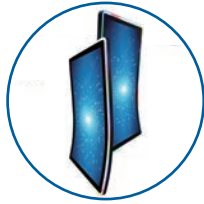- Sports Betting
- Amusement
- Kiosk

DPX®-LED Controller

- Suitable for a wide range of applications
- Runs multiple sequences independently
- Supports FadeCandy
- Easy to use API/GUI
- Connects via USB

Gaming Monitors

- Wide range of sizes from 4"-55"
- C, J & other profiles available
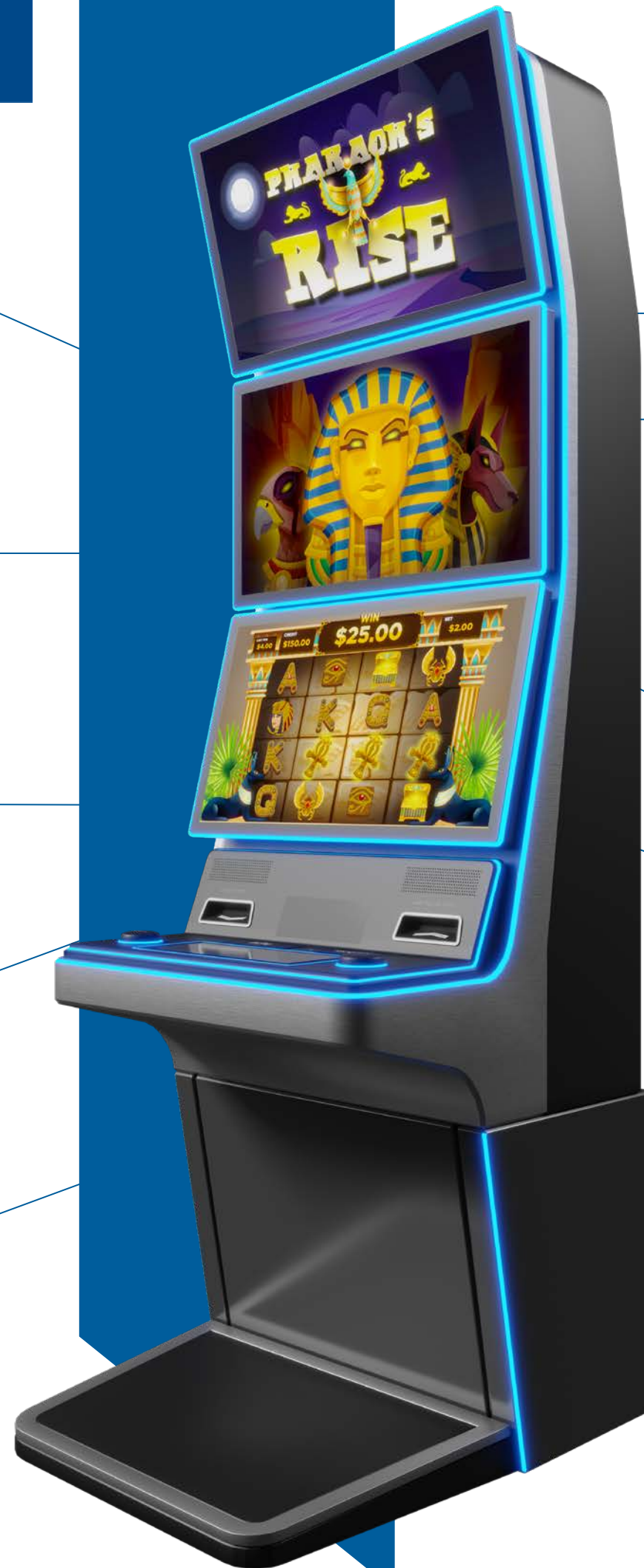- LED surrounds available
- Flexible mechanical design

Graphics Cards

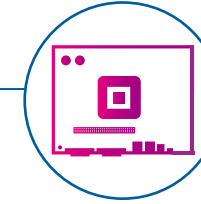- Long lifecycle
- Nvidia®, Intel®, AMD
- PCIe Express
- MXM

Industrial Memory & Storage

- Multiple form factors
- DDR3 / DDR4/DDR5 SODIMMS
- Lifetime warranty
- Custom provisioning
- Power fail protection
- Comprehensive security features

Operating Systems & Software

- Worldwide partner and licensed distributor of Microsoft OS
- BSP for Windows, Linux and more
- Custom, lockable image development
- Custom BIOS
- Dedicated gaming software:
  - DPX® - Connector
  - DPX® - Diagnostics
  - Direct PCI
  - Media Validation Toolkit

Security

- TPM Chip
- Random number generator (FIPS)
- 88 Bit unique ID
- EWF/UWF support
- BitLocker support
- Software authentication
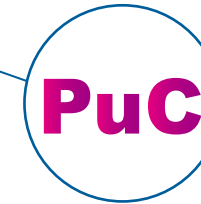- Intrusion detection logging processor (IDLP)

Slot Accounting System (SAS)

- Fully Featured SAS protocol library
- Mature field-proven product
- Approved in all major jurisdictions
- Supports latest versions
- Multi-game support
- Windows and Linux
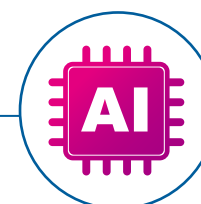- Ticket In / Ticket Out (TITO)
- Advanced funds transfer facilities

PuC Micro Contoller

- Preventive sytem maintenance for:
  - Diagnostics
  - Configuration
  - Reliability
  - Security
  - Event logging

Device Management & EdgeAI Support

- Manage connected devices at scale
- On-prem and cloud deployment architecture
- Easy integration in to 3rd party applications
- Supports Advantech & non-Advantech hardware
- Over the air updates and container management
- AI solutions support, cross vendor compliance
- AI benchmarking with no-code GUI

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