Innovations in **Gaming Computing**

The Widest Range of Solutions for the Gaming Industry

- **Lottery / Casino Machines**
- **Sports Betting**
- **AWPs**
- **VLTs / Class II**
- **Multiplayer Games**











About Advantech

Advantech's gaming division specializes in designing and manufacturing industrial-grade hardware and dedicated software tailored to the exact needs of the gaming industry. As the gaming-focused business unit of the \$2Bn Advantech Group, the division stands apart among hardware suppliers with its unmatched capability to support customers of all sizes across every region globally.

Strengthening its position as an industry leader, Advantech is a premier member of the Intel® Partner Alliance, enabling it to deliver first-to-market IoT solutions. Additionally, Advantech is a member of the AMD Elite Partner Program, offering a wide range of AMD-based high-performance computing platforms. As an Elite Partner of Nvidia, Advantech also provides advanced, long-life-cycle graphics solutions, ensuring the gaming industry has access to cutting-edge, reliable technology. Beyond hardware, Advantech offers a comprehensive suite of software solutions—ranging from IoT device management tools to Microsoft and Linux operating systems—ensuring a complete, reliable ecosystem for industrial and embedded applications.











Gaming team with extensive knowledge and experience

- Leading the Gaming Industry Since 1997: Delivering innovative solutions and unmatched insights that drive success
- Join a Team of Experts: Our experienced team ensures top-tier gaming solutions.
- Cutting-Edge Project Execution: Expert engineering and project management for efficient delivery.
- Multi-Disciplinary Teams: Comprehensive support from hardware to firmware and quality control.
- Comprehensive Software Support: Robust drivers and libraries for a wide range of gaming peripherals.
- Timely Custom Projects: On-time delivery tailored to your needs, reducing time to market.
- End-to-End Solutions: Full package, from validation to diagnostics and design files.
- Global Compliance: Worldwide regulatory approvals for smooth market entry.





International quality standard from design to delivery

The Group Quality system is audited and compliant with ISO 9001. The Quality system covers all aspects of product design, component selection, design verification, manufacturing, quality control and customer satisfaction. Advantech also holds global certifications of ISO 13485, TL 9000, ISO 14001, OHSAS 18001 and IECQ QC 080000.

Advantech - Global Company, Local Services

- Design Centers
- Manufacturing Centers
- Configure To Order Service Centers
- Logistics Centers
- System Repair Centers
- System & Board Repair Centers
- Onsite Service
- System Integration
- Leasing Service

Americas

Brazil Itajuba | ����� Mexico Monterrey | �� United States Cincinnati | �� United States Irvine | �� United States Milpitas | ���� United States Milpitas | ���� United States Ottawa | ������

Middle East & Africa

Turkey Istanbul | @ 🕒 🔞

Europe

Czech Republic Usti nad Orlici | ①①③
Germany Amberg | ①
Germany Munich | ②④
Netherlands Eindhoven | ⑥⑥
Poland Warsaw | ⑥⑥③
England Newcastle | ①

Asia Pacific

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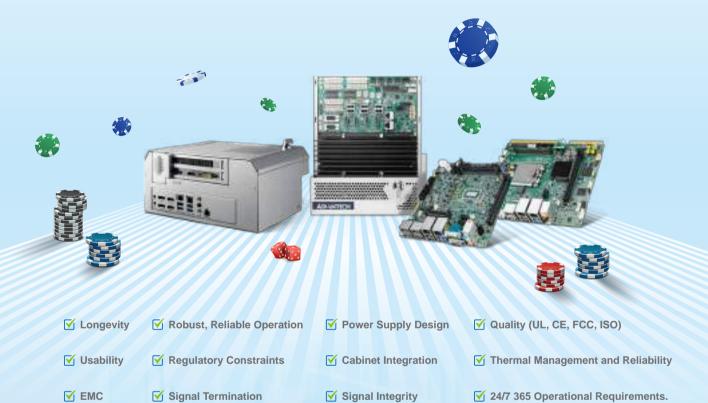
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Excellence in Design, Manufacture and Service

Advantech's gaming solutions products are crafted with high-quality components and utilize the latest design and production methodologies. While mass-produced commercial-grade motherboards also use top-tier components, our gaming division takes an extra step by meticulously selecting and sourcing components to optimize performance for gaming applications.

Key drivers when designing DPX® motherboards and sourcing components are:



Excellence in Manufacturing & Service

With a global footprint covering all major regions, Advantech's organization is unique in its ability to put technical support, configuration and repair services close to its customers, offering:

- Wholly owned manufacturing facilities (>130,000m²)
- State-of-the-art production equipment
- Highest yield rates
- Best quality
- BGA X-Ray inspection
- Automated test routines
- Elevated temperature burn-in

- Local support, service and repair/RMA
- Local inventory and fulfillment capabilities
- Advantech Care Service Packages: advanced replacements, extended warranty, guaranteed turnaround time

Complete Portfolio of Gaming Solutions

Advantech gaming solutions offers the widest range of industrial grade computer products designed specifically for the regulated gaming industry, Providing customers with excellent standard products, customized products and services, employing up-to-date technologies for gaming solutions to meet the requirements for Casino Machines, AWPs, VLTs, Multiplayer Games, Arcade Games, Pachislots, and Sports Betting.



Gaming Platforms & Systems

- Gaming I/O, multiple COM
- Onboard NVRAM
- Security
- Worldwide regulatory approvals



Industrial Storage

- SSD, HDD, CF, CFast, M.2
- DDR1-DDR5 SODIMM
- Custom provisioning
- Lifecycle controlled
- Power fail protection
- Comprehensive security features



Graphics Cards

- Long lifecycle
- Intel, Nvidia and AMD
- PCIe Graphics





Gaming Monitors

- All sizes with touch 43"~55" curved touch with customizable radius
- C, J and other profiles available



DPX® LED Controller

- Robust metal cover
- Industrial grade product
- Custom Vibrance FX application for easy detailed content creation





Software

- Microsoft embedded authorized distributor
- BSP for Windows, Linux and more
- Custom, lockable image development
- Custom BIOS



Embedded Platforms & Digital Signage

- Mini-ITX, single board computers, computer on modules RISC computing platforms
- Full ranges of signage

DPX®-S Series

Regulated Gaming Machines

Slot Machines

• VLTs

GLI Compliant

The DPX®-S Series products provide highly integrated industrial single board computers and systems with an unrivaled performance range, scalability, long life-cycle and low power. Both AMD and Intel® platforms are offered and each one features a full set of I/O, COMs, and security, developed specifically to meet the requirements of the regulated gaming industry. The S Series is proven format product, which boasts consistent API, forwards and backwards compatibility between generations, and has successfully achieved GLI certification in numerous global jurisdictions

Feature Highlights



System options available



Scalability of CPU and graphics



Full feature set of I/Os COMs, security



AMD and Intel **CPU** based











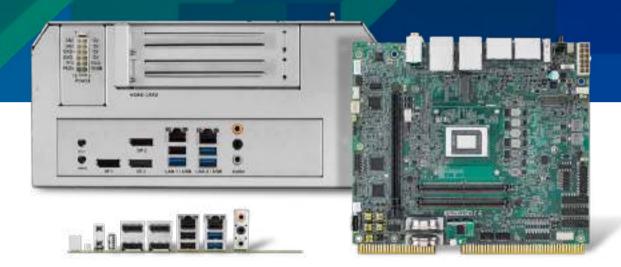


AMD Ryzen™ Embedded 8000 Multi-Screen **Gaming Platform & System**

- Very high-performance AMD multi-core SoC's
- 6 and 8 Core SoC's up to 45W
- Four independent monitors
- PCIe x16 graphics card slot
- Comprehensive gaming features
- 12V DC single input or ATX power
- Fully featured driver API for IO and security
- Hardware & Software backwards and forwards compatible



SCAN ME for more information!















Features



Digital I/O 32/32



8 x USB 2.0 2 x USB 3.2



DPX®-Software: Embedded OS, DPX® Diagnostics, DPX®-Connector DPX®-SAS



Battery Backed SRAM 8MB



10 x COMs: ccTalk, RS232, ID003, RS485, TTL



Enclosure Metalwork Optional



4 x DP++ 1.4a



M.2, SATA via M.2 adaptor, USB



On-board Micro Controller PuC



Expansion I2C



DPX® Security suite: Media Validation Toolkit TPM support, DPX® security features, BIOS customization

Intel[®] 12th, 13th & 14th Generation Core™ **Gaming Platform & System**

- Very high-performance Intel Hybrid Multi-core CPUs
- CPUs up to i9 24 Core
- Three independent monitors
- PCle x16 graphics card slot

- Comprehensive gaming features
- 12V DC single input or ATX power
- Full featured driver API for IO and security



SCAN ME for more information!























Features



Digital I/O 32/32



6 x USB 2.0 3 x USB 3.0



DPX-Software: Embedded OS, DPX Diagnostics, DPX-Connector & DPX-SAS



NVRAM (MRAM) 8 -16 MB (no battery required)



10 x COMs: ccTalk, RS232, ID003,RS485, TTL



Enclosure Metalwork Optional S2000



3 x DP++



M.2, SATA DOM, HDD, SSD, USB



On-board Mircocontroller



I²C, PCIe x 16 & Golden Fingers



DPX Security Suite: Media Validation Toolkit, TPM Support, DPX Security Features & BIOS Customization

DPX-S451/DPX-S2451

AMD Ryzen™ Embedded R2000 Gaming Platform & System

- High-performance AMD Embedded R2000 SOC APUs
- Quad and dual core APUs up to 3.35 (3.7) GHz
- Radeon VEGA GPU with up to 8 x compute units
- Four independent 4K monitors supported
- Comprehensive gaming features
- 12V DC single input or ATX power
- Full featured driver API for I/O and security



SCAN ME for more information!

















Features



Digital I/O 32/32



Expansion I²C, PCIe x 16 & Golden Fingers



DPX Security Suite: Media Validation Toolkit, TPM Chip Support. DPX Security Features & BIOS Customization



Battery Backed SRAM 8MB



8 x USB2.0 3 x USB3.0



DPX Software: Embedded OS, DPX Diagnostics, DPX-Connector & DPX- SAS



Displays 4 x DP++



10 x COMs: ccTalk, RS232, ID003, RS485, TTL, & 3 x DP++ 1.2



Enclosure S2000



Graphics Cards PCle x 16 Format



M.2, SATA DOM, HDD, SSD, Cfast, & USB



On-board Microcontroller PuC

AMD Ryzen™ Embedded V1000/R1000 Gaming Platform & **System**



SCAN ME for more information!

- Very high performance AMD Embedded V1000/R1000 SOC APUs
- Quad and dual core APUs up to 3.35 (3.8) GHz
- Radeon VEGA GPU with up to 11 compute units
- 4 x independent 4K monitors supported
- Comprehensive gaming features
- 12V DC single input or ATX power
- Full featured driver API for I/O and security

















Features



Digital I/O 32/32



Expansion I²C, PCIe x 16 & Golden Fingers



DPX Security Suite: Media Validation Toolkit, TPM Support, DPX Security Features & BIOS Customization



Battery Backed SRAM 8MB



8 x USB 2.0 3 x USB 3.0



DPX-Software: Embedded OS, DPX-Diagnostics, DPX-Connector & DPX-SAS



Displays 4 x DP++ (4 simultaneous)



10 x COMs: ccTalk, RS232, ID003,RS485, TTL







Graphics Cards PCIe x 16 Format



M.2, SATA DOM, HDD, SSD, CFast, USB



On-board Mircocontroller PuC

DPX-S2000 Series Systems

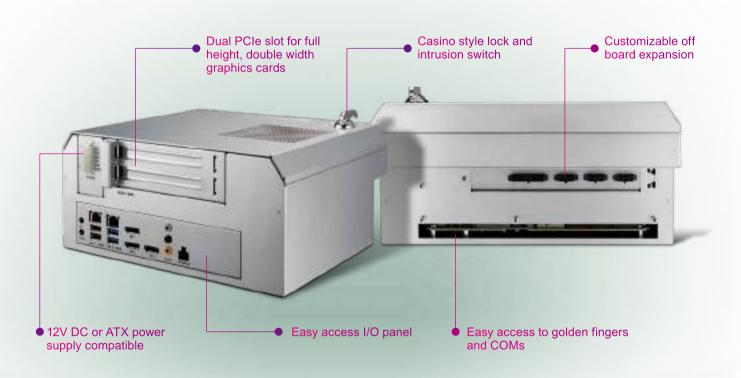
All the DPX-S series gaming platforms are available as highly integrated gaming systems in the DPX-S2000 range. These high performance systems are expandable, rugged logic boxes ready to be integrated directly into the slot cabinet. The system has a card slot bay for a PCIe graphics card that is wide enough for today's high powered double- width graphics cards.

- Full height, double width graphics card
- Compact design
- Tool free SSD/HDD access

- System fan
- Complete solution

Dimensions of System

	Length	Width	Height
DPX-S2450	214mm	260mm	124mm
DPX-S2451	214mm	260mm	124mm
DPX-S2455	214mm	260mm	124mm
DPX-S2460	214mm	260mm	124mm



DPX®-E Series

Regulated Gaming

Slot Machines

• VLT

GLI Compliant

The DPX®-E Series products provide highly integrated industrial single board computers and systems with an unrivaled performance range, long life-cycle and low power.

Both AMD and Intel® powered platforms are offered and each one features a full set of cabinet ready I/O, COMs, and security, developed specifically to meet the requirements of the regulated gaming industry.

Dedicated logic area conveniently locates all game critical functions in one place, which can be safely secured and monitored by intrusion circuits.

Feature Highlights



Full feature set of I/Os and COMs



Industry standard connectors for easy cabinet integration



Very cost-effective price point



Best in class integrated graphics performance









DPX[®]-E145

Intel[®] 11th Generation Core[™] Gaming Platform & System

- Powered by 11th Gen Intel Core i3/i5/i7 processors
- Also available with Intel Celeron processors
- CPUs up to Dual 3.0 (3.9) GHz, Quad core 2.8GHz (4.4) GHz
- Intel Iris Xe Graphics
- 4 x 4K monitor support
- Comprehensive gaming features
- Passive cooled system up to 28W



SCAN ME for more information!



Features



Digital I/O 32/32



6 x USB 2.0 3 x USB 3.1



DPX-Software: Embedded OS, DPX Diagnostics, DPX-Connector & DPX-SAS



Battery Backed SRAM



ccTalk, RS232, ID003,RS485, TTL



Enclosure Metalwork Optional



4 x DP++



M.2, SATA DOM, HDD, SSD, CFast, USB



On-board Mircocontroller PuC



Expansion I²C



DPX Security Suite: Media Validation Toolkit, TPM Support, DPX Security Features & BIOS Customization

DPX®-E140

AMD Ryzen™ Embedded V1000/R1000 **Gaming Platform & System**

- AMD Ryzen Embedded V1000/R1000 Processors
- High performance Radeon VEGA series graphics
- 4 x 4K monitor support
- Comprehensive gaming features
- Passive cooled system up to 25W, 54W with fan cooler
- 12V DC single input or ATX power















Features



Digital I/O 32/32



7 x USB 2.0 2 x USB 3.1



DPX-Software: Embedded OS, DPX Diagnostics, DPX-Connector & DPX-SAS



Battery Backed SRAM



9 x COMs: ccTalk, RS232, ID003, RS485, TTL



Enclosure Metalwork Optional



4 x DP++



M.2, SATA DOM, HDD, SSD, CFast, USB



On-board Microcontroller



Expansion



DPX Security Suite: Media Validation Toolkit, TPM support, DPX Security Features & BIOS Customization

DPX[®]-M Series

Sports betting

• Kiosk

Arcade

Gaming

GLI Compliant

The DPX-M Series of products provide a high performance multi-media engine specific to the needs of gaming OEMs around the globe. The robust, low cost, high speed expansion bus allows a range of standard or proprietary modules to be added such as dedicated Gaming IO, Security, NVRAM, FGPA, NFC, RFID, Smart card, LEDs and many more.

For maximum versatility the boards feature mini-ITX mounting holes and are available with a range of secure logic boxes.

Feature Highlights



AMD and Intel CPUs available, Mini ITX mounting holes, up to 4 x 4K screens and development kits.



System options available, M-Series PSU units are available.



Modular Side expansion bus, Advantech has a range of standard "add-on cards" for sports betting or gaming Sub system.













AMD Ryzen™ Embedded 8000 Series **Multi-media Gaming Platform & System**



SCAN ME for more information!

- Very high performance AMD Multi-core SoC's
- Two SoDIMM DDR5-5600 up to 96GB total
- SoC 's up to 8 core 54W TDP
- Four independent monitors (Display P ort 1.4)
- PCle x16 graphics card slot

- Modular Expansion Port Edge connector
- Full y featured driver API for IO and security
- Intrusion detection, hardware monitoring, precision RTC
- Hardware & Software backwards and forwards compatible
- Industry leading GPSA (Gaming Platform Security Architecture)













Features



5 individually configurable signals



8 x USB 2.0 2 x USB 3.2



DPX®-Software: Embedded OS, DPX® Diagnostics, DPX®-Connector DPX®-SAS



Battery state software readable



6 x COMs: ccTalk, RS232, ID003, RS485, TTL



Enclosure Metalwork Optional



4 x DP++ 1.4a



M.2, SATA DOM, HDD, SSD,CFast, USB



Gaming Controller



Expansion I2C PCle x 16 and Sidebus Modular Expansion



DPX® Security suite: Media Validation Toolkit TPM support, DPX® security features, BIOS customization

DPX-M275/DPX-M1275

Intel[®] 12th, 13th & 14th Generation Core[™] **Multi-media Gaming Platform & System**

SCAN MF for more information!

- Very high-performance Intel Hybrid Multi-core CPU's
- Two SoDIMM DDR5-4800/5600MT/s up to 64GB
- Three independent monitors (2x DisplayPort, 1x HDMI)
- PCIe x16 graphics card slot
- Modular Expansion Port Edge connector

- Fully featured driver API for IO and security
- Intrusion detection, hardware monitoring, precision RTC
- Hardware & Software backwards and forwards compatible























Features



Digital Inputs/ Intrusion inputs 6 (5 on side expansion connector)



6 x USB 2.0 3 x USB 3.2/2.0



DPX®-Software: Embedded OS, DPX® Diagnostics, DPX®-Connector DPX®-SAS



Battery state software readable



ccTalk, RS232, ID003,Tx/Rx, TTL



Enclosure Metalwork Optional



2 x DP++ v1.4a 1 x HDMI 2.0b



M.2, SATA DOM, HDD, SSD,USB



On-board Micro Controller PuC



Expansion I2C PCIe x 16 and Sidebus Modular Expansion



DPX® Security suite:Media Validation Toolkit TPM support, DPX® security features, BIOS customization

AMD Ryzen™ Embedded R2000 Multi-media **Gaming Platform & System**

SCAN ME for more information!

- High performance AMD Ryzen Embedded R2000
- Quad and dual core APUs up to 3.35 (3.7) GHz
- Supports 4 display outputs (4 x DP v1.2)
- PCle x16 graphics card slot

- Modular Expansion Port Edge connector
- Storage 2 x SATA / CFast, 1 x M.2
- Media Validation Toolkit support
- RS232, RS455, ccTalk, TTL, ID003, I²C, intrusion and DIs















Features



Digital Inputs/Intrusion Inputs 6 (5 on side expansion connector)



6 x USB 2.0 3 x USB 3.1



DPX-Software: Embedded OS, DPX Diagnostics, DPX-Connector & DPX-SAS



4 x DP++



ccTalk, RS232, ID003, RS485, TTL



Enclosure Metalwork Optional



Expansion I2C PCIe x 16 and Sidebus Modular Expansion



M.2, SATA DOM, HDD, SSD, CFast, USB



On-board Mircocontroller



DPX Security Suite: Media Validation Toolkit, TPM Support, DPX Security Features & BIOS Customization



PCIe x16, I2C, Modular side expansion bus for application specific I/O- extra COMs, I/O, NVRAM

- Powered by 8th & 9th Gen Intel Core processors (available with Intel Core i3/i5/i7, Intel Pentium & Intel Celeron)
- Two 260-pin SO-DIMM up to 32GB DDR4 2666 MHz SDRAM
- Supports 3 x display outputs (2x DP++, HDMI)
- PCle x16 Gen 3.0 graphics card slot

- Storage 2 x SATA with 1 x M.2
- Media Validation Toolkit support
- RS232,RS455, ccTalk, TTL, ID003, I2C, intrusion and digital inputs
- Modular expansion port Edge connector



SCAN ME for more information!























Features



Displays 2 x DP++

1 x HDMI

(3 simultaneous for Q370. 2 simultaneous for H310)



Onboard:

8 x USB 2.0 Via Golden Fingers: 4 x USB 3.1 2 x USB 2.0



DPX Security Suite: Media Validation Toolkit, TPM Support, DPX Security Features & BIOS Customization



Digital Inputs/ Intrusion inputs 6 (5 on side expansion connector)



ccTalk, RS232, ID003, TTL



DPX-Software: Embedded OS, DPX Diagnostics, DPX-Connector & DPX-SAS



Graphics Cards PCIe x 16 Format



M.2, SATA DOM, HDD, SSD, USB



Enclosure M1000 & M2000



Expansion I2C, PCIe x 16 and Sidebus Modular Expansion

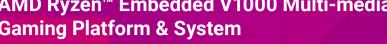


PCIe x16, I2C, Modular side expansion bus for application specific I/O- extra COMs, I/O, NVRAM



On-board Microcontroller **PucLite**

AMD Ryzen™ Embedded V1000 Multi-media **Gaming Platform & System**



- Supports 4 x DP++
- Supports PCle x8 (PCle x16 connector, Gen 3.0)
- Two 260-pin SO-DIMM up to 32 GB DDR4 3200 MHz ECC/Non-ECC SDRAM
- Removable gaming BIOS module for field verification
- Side expansion port for application specific expansion modules
- Supports 2 x SATA / 2 x CFast / 1 x M.2
- AMD Ryzen Embedded V1000 processors
- Media Validation Toolkit support



SCAN ME for more information!

















NICTOSOFT

☐ C FCC

Features



Digital Inputs/ Intrusion inputs 6 (5 on side expansion connector)



Onboard:

4 x USB 2.0 3 x USB 3.1

Via Golden Fingers: 2 x USB 2.0



DPX Security Suite: Media Validation Toolkit, TPM Support, DPX Security Features & BIOS Customization



Displays 4x DP++ (4 simultaneous)



6 x COMs: ccTalk, RS232, ID003,RS485, TTL



DPX-Software: Embedded OS, DPX Diagnostics, DPX-Connector & DPX-SAS



Graphics Cards PCle x 16 Format



M.2, SATA DOM, HDD, SSD, CFast, USB



Enclosure M1000 & M2000



Expansion I2C, PCIe x 16 and Sidebus Modular Expansion



PCIe x16, I2C, Modular side expansion bus for application specific I/O- extra COMs, I/O, NVRAM



On-board Microcontroller **PucLite**

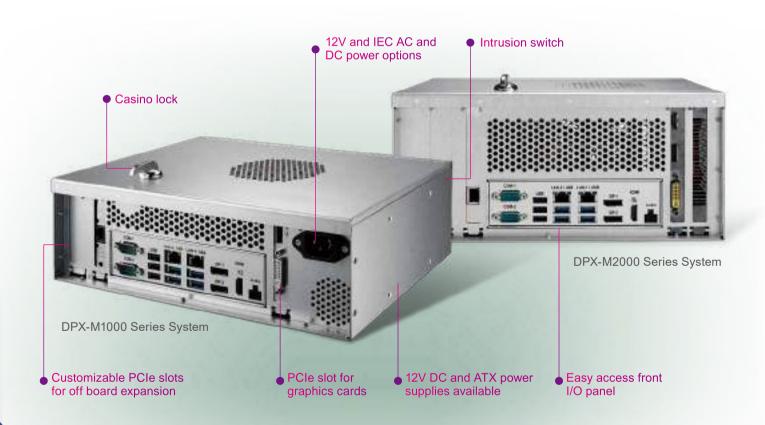
DPX-M1000 & DPX-M2000 Series Systems

All the DPX-M series gaming platforms are available as high performance multi-media systems specific to the needs of gaming OEMs in the DPX-M1000 & M2000 range. These high performance systems are expandable, rugged logic boxes ready to be integrated directly into the slot cabinet.

- Up to 200W Power Supply
- Compact Design
- Tool Free SSD/HDD Access

Dimensions of System

	Length	Width	Height
DPX-M1265/M1266/M1270	232mm	295mm	104mm
DPX-M2265/M2266/M2270	242mm	295mm	134mm
DPX-M1275	232mm	295mm	104mm
DPX-M1280	232mm	295mm	104mm



DPX®-J Series

Regulated Gaming

Street Gaming

GLI Compliant

Designed specifically for gaming devices, the DPX-J Series offers a comprehensive set of I/O, COMs, and security

Feature Highlights



JAMMA connectors



(some APUs)













- High performance AMD Embedded V&R SOC APUs
- Quad and dual core APUs















Features



Digital I/O 24/24



Expansion I²C, Mini PCI



DPX Security Suite (as below) +iButton



Up to 2MB of Battery Backed FRAM



6 x USB: 4 x 2.0 -2 x 3.1/2.0



DPX-Software: Embedded OS, DPX Diagnostics, DPX-Connector & DPX-SAS



1 x DP++, 1 x HDMI and 1 x VGA



6 x Coms - RS232/485 Tx/Rx RS232, ccTalk, RS485



Board (DPX-J100B) or System level with enclosure (DPX-J100S) and configurable IO (DPX-J100S1)



Onboard Audio Amplifier, Line Out, Digital SPDIF Out



M.2, SATA DOM, HDD, SSD, CFast, USB



On board Microcontroller

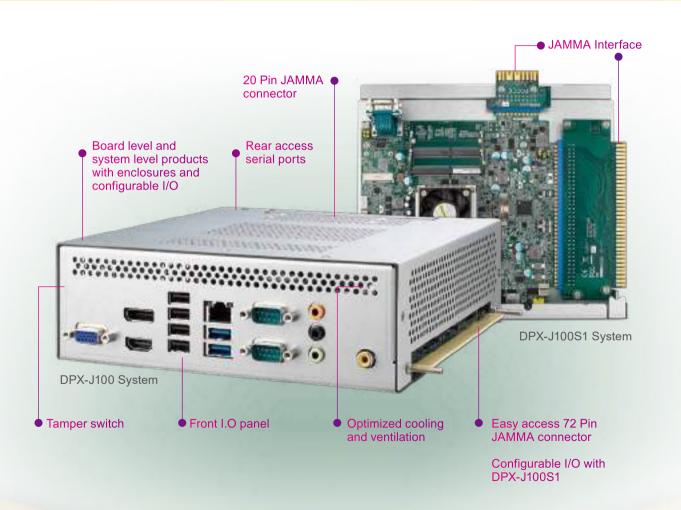
DPX-J100 Series Systems

The DPX-J100 is a compact gaming logic box built around Advantech's DPX-J Series motherboards, available in two different form factors.

Easy access to a full set of I/O, COMs and tamper proof switch. Security features designed specifically for gaming devices makes the J100 system ideal for many gaming, amusement and kiosk applications. Optimised cooling with fanless options for certain models, allows for robust, maintenance free operation in the harshest gaming environments.

Dimensions of System

	Length	Width	Height
DPX-J100 system	200mm	200mm	65mm
DPX-J100S1 system	266mm	232mm	65mm







DPX®-Development Kits

All inclusive packages for quick development

With development times becoming shorter in the gaming industry, the range of DPX Developer's kits provides a fast, simple way to get up and running with any of the DPX Series products. It also provides the best possible "out of the box" experience, with everything you need to begin developing on DPX hardware platforms, delivered to you, fully tested and ready to go (with up to date drivers) in one handy box:

- All inclusive kits for each DPX mainboard
- Fast and simple setup to evaluate and start development
- Includes pre-configured operating systems, drivers and utilities
- Demo and reference source code
- I/O development board, power supply and full documentation



The kits are based on a DPX® mainboard, and includes all the other necessary items to set up an evaluation and development station:

- Source code
- DPX System
- Demo utilities
- PSU / Dongles
- 128GB Advantech storage
- Demo OS / Linux Image
- Full cable sets
- Motherboard + CPU
- 8GB Advantech RAM
- Complete documentation



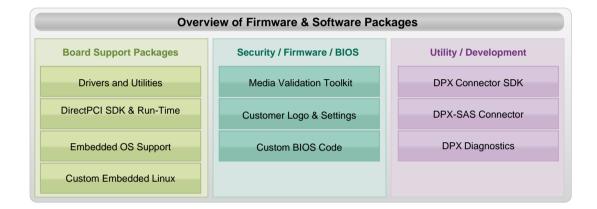
SCAN ME for more information!

Gaming Software, Firmware, Integration and Security Support



Software Overview

Advantech supplies a wide range of software packages and support to accelerate the customer's development cycle. As well as board support packages with highly robust drivers and edge-to-edge coverage for the hardware platforms, other software products are available including peripheral protocol libraries, security suites, diagnostic and test software designed to help develop the best-balanced gaming solutions.



Board Support Package

Board support packages provide software support for Microsoft Windows embedded OS and embedded Linux OS. A full set of drivers and APIs are provided to all standard PC functions as well as all gaming specific hardware features. Direct PCI Software Development Kits are integrated into DPX-Series motherboards to handle gaming critical functions such as SRAM, Digital Inputs Outputs (DIO) Watchdog, as well as intrusion monitoring and other functions. The API is optimized for Embedded Windows and Linux distributions and is common across all DPX-Gaming motherboards.

Security

Advantech's gaming division understands that the protection of gameplay data and machine state are critical considerations. Software and hardware tampering detection, as well as media validation are key requirements set by gaming regulators. The aim is 'Player' and 'Operator' protection, fair games and correct pay-outs.

As such the DPX range of gaming motherboards come with the following security features as standard:

- TPM Chip
- Random Number Generator (FIPS)
- Password protected i2c port
- 88 Bit Unique ID
- EWF/UWF support
- BitLocker support
- Software authentication
- TCG Opal 2.0 SQFlash products available
- Intrusion detection logging processor (IDLP)

OEM Intellectual Property

Encryption of data and applications, strong password, key storage and platform authentication are all key considerations when choosing a gaming platform; as well as prevention of copying or cloning of game data, stopping unauthorized content from being loaded in order to maintain competitive advantage and protection of investment and IP. Advantech's gaming specific software solutions combined with hardware features gives you multiple methods to protect your game content.

Featured Gaming Software

Media Validation Toolkit

The Media Validation Toolkit provides a toolkit for the developer to produce low-cost, low-overhead security mechanisms for gaming machines. The mechanisms security features cover various aspects of security control and ensure:

- 1) Customers' software applications can only run on designated hardware.
- 2) Designated systems only run designated software.
- 3) Compliance with U.S. and international gaming regulations for media validation.
- SDK for customizable pre boot BIOS media validation
- Meets GLI-11 and other regulatory requirements
- SHA-1 Hash and BIOS self-test
- Supports encrypted digest and multiple hash tables
- Comprehensive user manual



The Trusted Platform Module (TPM)

The TPM chip included on Advantech DPX Series main boards is an advanced security coprocessor offering a high level of hardware-based security for application development and deployment.

- Unique per-board RSA key generates, stores and protects RSA keys: keys never leave the TPM chip un-protected
- RSA asymmetric encryption and signing SHA-1 hashing
- Generates random numbers to 1-million bit random-ness (as tested by US NSA)
- Chip is physically secure from physical tampering



BIOS

Advantech provides gaming-specific firmware and software customization services including BIOS and TPM support that deliver superior performance, compatibility and functionality, and also provide information encryption, which is expected by manufacturers of gaming platforms.

- Secure AMI APTIO UEFI BIOS
- Customization
- Field verifiable BIOS
- Field and Laboratory approved
- Immutable BIOS and development versions
- Customization and write protection for security
- Support for security ROM extensions



DPX®-Connector SDK

DPX-Connector SDK is a software package developed to address customers' needs to connect third-party hardware peripherals to Advantech's gaming computer boards. A unified event handler provides an efficient method to handle communications. The SDK supplies a range of hardware and protocol-oriented modules to allow connection of a range of peripherals including:

- Coin Hoppers
- Bill Validators
- Ticket Printers

The DPX-Connector SDK supports ccTalk and JCM ID003 devices, as well as Windows and Linux OS.



Slot Accounting System (SAS)

The DPX-SAS Connector is a complete, ready to use driver and API environment that enables implementation of the SAS protocol with the DPX range of products. Field proven and lab-certified the DPX-SAS Connector handles all SAS messaging, register structures and timing protocols.



- Fully featured SAS protocol library
- Mature field-proven product
- Approved in all major jurisdictions
- Supports latest versions

- Multi-game support
- Windows and Linux OS
- Ticket In / Ticket Out (TITO)
 Advanced funds transfer facilities
- Real-time events
- Supports different currencies
- Progressives and tournament support.

DPX® Diagnostics SDK

The DPX Diagnostics SDK is the perfect pre-deployment hardware verification tool, allowing gaming features and software testing. USB and CD bootable, and comprehensive Windows and Linux OS support. Source code is available.



1-Wire / iButton® SDK

The 1-Wire / iButton SDK provides support for all 1-Wire and iButton devices, comprehensive Windows and Linux OS support. Source code is available.



PuC Microcontroller

The PuC embedded Microcontroller (IOC, PuC, MPuc and PuC-Lite depending on the DPX-Model) is an integrated subsystem used across the range of Advantech's motherboard products and provides a range of user functions suited to the gaming industry.

What is it?

On-board, low cost, low power, 8 bit Microcontroller.

What does it do?

Provides system maintenance, diagnostics, configuration, reliability, security, event logging and manageability functions.

Customer Benefits

Improved system reliability, remote manageability, remote updates, simplified factory set up (jumper-less design, single firmware image), quieter operation, improved security and logging.



Gaming Monitors

Designed exclusively for gaming applications, Advantech's gaming display solutions provide a wide range of gaming monitors to meet the special requirements of applications such as slot machines and casinos. Solutions include both open frame monitors and ultra widescreen displays. These display solutions feature widescreens, reliable touch screens and flexible mechanical designs that can be integrated with Advantech's gaming platforms for a total gaming solution. Applications include slot machine, lottery terminals, jackpot systems, sports betting terminals, kiosks etc.

IDP31 LED HALO Series

Standard, Front LED and Edge LED

Panel Size: 21.5"

Resolution: 1920x1080@60Hz

Brightness: 250 nits

Viewing Angles: 89/89/89/89 LRUD

Video Inputs: HDMI/DP

Panel Size: 27"

Resolution: 1920x1080@60Hz

Brightness: 300 nits

Viewing Angles: 89/89/89/89 LRUD Video Inputs: VGA, DVI, DP

Panel Size: 23.8"

Resolution: 1920x1080@60Hz

Brightness: 250 nits

Viewing Angles: 89/89/89/89 LRUD Video Inputs: VGA, DVI, DP

Panel Size: 32"

Resolution:1920 x 1080@60HZ

Brightness:400nits

Viewing Angles: 89/89/89/89 LRUD Video Inputs:VGA/DP/HDMI

IDK and IDP31 EDGE Open frames

Button Deck Touch

Panel Size: 10.1"

Resolution: 1280 x 800 Brightness: 500

Viewing Angles: 85/85/85/85 LRUD

Video Inputs: VGA, DVI

P-cap Touch

Customizable Buttons

Optional: Glass Artwork

Integrated Wireless Charger

Panel Size: 12.1"

Resolution: 1280 x 800 Brightness: 400

Viewing Angles: 85/85/85/85 LRUD

Video Inputs: HDMI, USB

P-cap Touch

Customizable Buttons

Optional: Glass Artwork

Integrated Wireless Charger







For C and J curved

Panel Size: 32" C Curved/43" in C & J Curved (Non-LED)

Resolution:2560 x 1440@144Hz(32") /

3840 x 2160@60Hz (43")

Brightness: 250nits(32")/500nits(43") Viewing Angles:89/89/8989 Video Inputs:HDMI/DVI/DP/USB

Panel Size: 43" in C & J Curved

Resolution:3840 x 2160@60Hz

Brightness: 500nits

Viewing Angles:89/89/89/89 Video Inputs:HDMI/DVI/DP/USB



IDP31 EDGE Closed frame

Bezeless Touch Monitor

Panel Size: 10.1"

Resolution:1280 x 800@60Hz

Brightness:500nits

Viewing Angles:85/85/85/85 Video Inputs: VGA/DVI/USB

Panel Size: 17"

Resolution:1280 x 1024@60Hz

Brightness:250nits

Viewing Angles:85/85/80/80 Video Inputs: HDMI/VGA/USB

Panel Size: 21.5"

Resolution:1920 x 1080@60Hz

Brightness:250nits

Viewing Angles:89/89/89/89 Video Inputs: HDMI/VGA/USB

Panel Size: 15"

Resolution:1024 x 768@60Hz

Brightness:350nits

Viewing Angles:80/80/80/80 Video Inputs: VGA/DVI/USB

Panel Size: 19"

Resolution:1280 x 1024@60Hz

Brightness:250nits

Viewing Angles:85/85/80/80

Video Inputs: HDMI/VGA/DVI/DP/USB

Panel Size: 27"

Resolution:1920 x 1080@60Hz

Brightness:300nits

Viewing Angles:89/89/89/89
Video Inputs: HDMI/VGA/DVI/USB

Industrial Memory & Storage, Graphic Cards, OS License



SCAN ME for more information!

Advantech gaming peripherals offer specialized, quality components with long lifecycle support for our gaming platforms. All peripherals are fully compatible with Advantech gaming boards and systems. Offering:

- · Long lifecycle graphic cards
- Storage devices HDD, CFast, SSD, M.2
- Embedded operating system licenses
- Long lifecycle, reliable RAM modules
- · Backplanes and connector boards
- iButton®
- Enclosures

SQFlash Industrial Storage Solutions

SQFlash series supports various interfaces such as SATA, PCIe/NVMe and PATA/IDE with multiple form factors including 2.5" SSD, mSATA, M.2, DOM, CFast, half-slim SSD and more.





SQRAM Industrial Memory Solutions

SQRAM series offers a comprehensive range of product lines including Unbuffered DIMM ECC DIMM, server DIMM and rugged DIMM with speed of DDR5, DDR4, DDR3, DDR2 and DDR1.

Graphics Cards

Increasingly in embedded systems, more and more demands are made for rich, vibrant graphics and enhanced parallel computing capabilities. Advantech offers a comprehensive product line of graphic card solutions specifically designed for diverse industrial applications needing high processing and imaging technology. Graphics cards feature high performance, and low power consumption. Advantech supports long lifecycles from 3 to 5 years.





Microsoft OS License

Advantech is a gold worldwide partner and licensed distributor of Microsoft OS and Cloud solutions. Windows 10/11 IoT is a family of Windows OS editions targeted towards a wide range of intelligent devices, from small industrial gateways to larger, more complex devices like point of sales terminals, ATMs and gaming machines. Furthermore with Azure IoT services, partners can gather, store and process data, creating actionable business intelligence. Gaming customers can realize expanded opportunities when they harness the full breadth of Microsoft technologies to offer end-to-end solutions.

Advantech's gaming division understand that game developers and cabinet makers need to make their product stand out in the crowded casino floor, as well as thinking about the end user and their experience.

The DPX-LED Controller is an key component in the developer's tool box allowing ideas and visions to be transferred from sketch pad to the big screens of the casino floor. With the capability to drive up to 4000 individual LED's, and complimented by an easy to use GUI, (Graphical User Interface) the DPX-LED Controller is the perfect tool to develop, test and control your gaming cabinet lighting.



Features and Functions

- Industrial grade product
- Long term availability
- Robust metal cover
- Custom Vibrance FX application for easy detailed content creation
- Watchdog timer



SCAN ME for more information!



Power

- Supports 12V or 5V LED's
- Can be powered by a single 5V or 12V discrete PSU

4096 LEDs

 Up to 4000 LED's can be PWM driven Supports 'tri' or 'quad' colour addressable LEDs

USB Connectivity

• USB connectivity to DPX motherboard or standalone

LED Compatibility

- 16x 1-Wire channels or 8x 2-Wire LED channels user configurable
- 1-Wire and 2-Wire type supported

Other Features

- Up to 64 discrete pattern sequences
- Up to 4 x layer FX creating depth
- 16 Clock domains
- Pattern sequence position updates
- Drop-in Fadecandy replacement

Gaming Platform and Customization Services

Service Overview

Advantech's gaming solutions offer reliable computing capabilities beyond their extensive range of standard products. Custom design requests are welcomed, whether it's minor modifications to existing DPX products or entirely new product designs, including new motherboards, system, carrier boards, custom firmware, and microcontroller designs.

- Huge portfolio of reference designs
- 900+ R&D engineers
- In-house CAD design and simulation services
- Intel and AMD select partner

- In-house design validation (EMC, signal integrity, thermal, vibration and HALT)
- Worldwide base of installed hardware and field proven software



Hardware Design Services	Firmware and OS Design Services	System Design Services
Custom CPU board designs	Embedded OS support	Custom enclosures
• Intel, AMD, and RISC platforms	OS image development	Thermal simulation
GPU design and integration	FPGA, microcontroller custom firmware	Peripheral integration
Custom I/O	BIOS customization	System validation (thermal, vibration, EMC, HALT etc)
Various security solutions	BIOS Security extension code	Integration of customer's hardware

Gaming Computing Platforms

Standalone Series

















		200	-	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other party of the Concession, Name of	The same of	CLIMA		make a		
Мо	del Name	DPX-S460	DPX-S2460	DPX-S455	DPX-S2455	DPX-S450	DPX-S2450	DPX-S451	DPX-S2451	
Form Facto	r	DPX Gaming Board	DPX Gaming System	DPX Gaming Board	DPX Gaming System	DPX Gaming Board	DPX Gaming System	DPX Gaming Board	DPX Gaming System	
	CPU	AMD Ryzen Embedded 8000		Intel 12th/13th/14th	Intel 12th/13th/14th Generation Core		AMD Ryzen Embedded V1000/R1000 APU		AMD Ryzen Embedded R2000 APU	
	Socket	В	GA	LGA1700		BGA		BGA		
Processor	Max. Speed	3.8 (5.1) GHz			2) GHz		s.8) GHz	3.35 (3.7) GHz		
System	TDP	45W			5W		4W		1W	
	Chipset		ioC	H610E		SoC		SoC		
	BIOS	AMI APTIO UEFI	(Gaming optimised)	AMI APTIO UEFI	(gaming optimized)	AMI APTIO UEFI (gaming optimized)		AMI APTIO UEFI	(gaming optimized)	
	Mini PCIe /									
Expansion	mSATA	DCIo v 14 (v0 cignol)		DOI:	1/	DOI:1/	(+O = ! == = 1)	DOI:1/	(01	
Slot	PCIe Side Port	PCIe x 16 (x8 signal)			e x16	PCIE X16	(x8 signal)	PCIE X16	(x8 signal)	
		Dual Channal I	DDR5 5600 MT/s		DDR5 5600MHz	Dual Channal	DDR4 3200MHz	Dual Channal	DDR4 3200MHz	
Memory	Technology Max. Capacity		1GB	-	48GB		IGB		GB	
ivicitioi y	Socket Socket		ODIMM		DDIMM		DDIMM		DDIMM	
			AMD RDNA3 graphics				eon VEGA graphics		eon VEGA graphics	
	Controller		gine)	in CPU (Intel UI	HD graphics 770)		gine)		jine)	
Cronbino	VGA		-		-		-		-	
Graphics	DVI		-		-		-		-	
	DP		4		3		4		4	
	HDMI		-		-		-		-	
Ethernet	LAN1		BbE		bE		bE		bE	
	LAN2	GbE			bE 1		bE		bE	
Storage	SATA	Dual SATA support via M.2 adapter		1		2 2		2 2		
	Cfast M.2		2	1		1		1		
	VGA / DVI /									
_	HDMI / DP	0/0/0/4		0/0/0/3			0/0/4		/0/4	
	Ethernet		8	6			2		2	
I/O	USB 2.0 USB 3.1		2	3			3		3	
	Audio		1), SPDIF		und, SPDIF		PDIF, 2.1 Amplified		PDIF, 2.1 Amplified	
			<u>:</u>		x RS232, 2x Cctalk, 1x		x RS232, 2x Cctalk, 1x		RS232, 2x Cctalk, 1x	
	Serial Ports		10	RS485, 1x	TTL/ID003)	RS485, 1x	TTL/ID003)	RS485, 1x	TTL/ID003)	
	SRAM		MB		to 16MB)		MB		MB	
	OpROM		M module	-	y via BIOS IC		y via BIOS IC		/ via BIOS IC	
	TPM	IPI	M 2.0		√ 2.0 -		M 2.0		M 2.0	
	Audio Amplifier		22				W (FL, FR, LFE)		N (FL, FR, LFE)	
Gaming Hardware	Digital Inputs Digital Outputs		32 32		protected) 00mA 47V)		protected) 00mA 47V)		protected) 00mA 47V)	
	Intrusion Inputs		8	-	8	-	8		8	
	iButton / GPIO		2		2	2			2	
	DPCI Expansion		-		ndard		- ndard		ndard	
	Watchdog Timer		1		1		1		1	
	DPCIe Gaming API & Runtime	Star	ndard	Star	ndard	Star	ndard	Star	ndard	
	DPX Connector Peripherals Libraries	Stal	ndard	Star	ndard	Stal	ndard	Stal	ndard	
Gaming Software	Embedded OS Support	Sta	ndard	Star	ndard	Sta	ndard	Star	ndard	
	BIOS Customization	Opt	tional	Opt	ional	Optional		Opt	ional	
	DPX SAS Connector	Орі	tional	Opt	ional	Optional		Opt	ional	
	Media Validation Toolkit	Opt	tional	Opt	ional	Opt	ional	Opt	ional	
Other Feat	ıres	I2C, Precision RTC,	ATX or 12VDC power	I ² C, Precision RTC,	ATX or 12VDC Power	I ² C, Precision RTC,	ATX or 12VDC Power	I ² C, Precision RTC,	ATX or 12VDC Power	

Economy Series





		7, 19, 10, 10	713 11N*
	Model Name	DPX-E145	DPX-E140
Form Facto	r	DPX Gaming System	DPX Gaming System
	СРИ	11th Generation Intel Core SoC CPU	AMD Ryzen Embedded V1000/ R1000 APU
	Socket	BGA	BGA
Processor	Max. Speed	3.35 (3.8) GHz	2.2 (3.9) GHz
System	TDP	up to 28W (passive cooled)	15-25W (passive cooled), 54W (fan)
	Chipset	SoC	SoC
	BIOS	AMI APTIO UEFI (gaming optimized)	AMI APTIO UEFI (gaming optimized)
	Mini PCIe / mSATA	-	-
Expansion Slot	PCIe	-	-
	Side Port	-	-
	Technology	Dual Channel DDR4 3200MHz	Dual Channel DDR4 3200MHz
Memory	Max. Capacity	64GB	32GB
	Socket	2x SODIMM	2x SODIMM
	Controller	in CPU (Intel Iris Xe integrated graphics engine)	in APU (AMD Radeon VEGA graphics engine)
	VGA	-	-
Graphics	DVI	-	-
	DP	4	4
	HDMI	-	
	LAN1	GbE	GbE
Ethernet	LAN2	GbE	GbE
	SATA	2	2
Storage	Cfast	2	2
	M.2	1	1
	VGA / DVI / HDMI / DP	0/0/0/4	0/0/0/4
	Ethernet	2	2
	USB 2.0	6	7
I/O	USB 3.1	3	2
	Audio	5.1 Surround, SPDIF, Stereo Amplified	5.1 Surround, SPDIF, Stereo Amplified
	Serial Ports	9 (4/2/1/1/1)	9 (4/2/1/1/1)
	SRAM	8MB	8MB
	OpROM	Functionality via BIOS IC	Functionality via BIOS IC
	TPM	TPM 2.0	TPM 2.0/1.2
	Audio Amplifier	20W+20W (FL, FR)	20W+20W (FL, FR)
Gaming	Digital Inputs	32 (ESD protected)	32 (ESD protected)
Hardware	Digital Outputs	32 (OC 500mA 47V)	32 (OC 500mA 47V)
	Intrusion Inputs	8	8
	iButton / GPIO	2	2
	DPCI Expansion	Standard	Standard
	Watchdog Timer	1	1
	DPCIe Gaming API & Runtime	Standard	Standard
	DPX Connector Peripherals Libraries	Standard	Standard
Gaming Software	Embedded OS Support	Standard	Standard
	BIOS Customization	Optional	Optional
	DPX SAS Connector	Optional	Optional
	Media Validation Toolkit	Optional	Optional
Other Featu	ires	ATX or 12VDC power	ATX or 12VDC power

Jamma Series





	Model Name	DPX-J100	DPX-J100S1	
Form Factor	r	Extended Mini-ITX	DPX Gaming System	
	СРИ	AMD Ryzen Embedded V1000/R1000 APU		
	Socket	BGA		
Processor	Max. Speed	2.6 (3.	5) GHz	
System	TDP	Up to	25W	
	Chipset	Si	эC	
	BIOS	AMI APTIO	UEFI BIOS	
	Mini PCIe / mSATA		-	
Expansion Slot	PCIe	Half M	ini-PCI	
	Side Port			
	Technology	Dual Channel [DDR4 2400MHz	
Memory	Max. Capacity	32	GB	
	Socket	2x SC	DIMM	
	Controller		APU GA graphics engine)	
	VGA		1	
Graphics	DVI			
	DP		1	
	HDMI	1		
	LAN1	G	bE	
Ethernet	LAN2	G	bE	
	SATA		1	
Storage	Cfast		1	
	M.2		1	
	VGA / DVI / HDMI / DP	1/0/1/1		
	Ethernet	2		
	USB 2.0	4		
I/O	USB 3.1	:	2	
	Audio	Line Level 5.1, SPDIF, Stereo Amplified (6W/Ch)		
	Serial Ports	6 (3/2	/0/1/0)	
	SRAM	Option for 2 banks up to 2MB total (zer FRAM default)		
	OpROM	Functionality via BIOS IC		
	TPM	TPM 2.0 (option)		
	Audio Amplifier	6W+6W (FL, FR)		
Gaming	Digital Inputs	24 (ESD protected)		
Hardware	Digital Outputs	24 (500m	A), 5 (2A)	
	Intrusion Inputs	8		
	iButton / GPIO	iButton/ One	-Wire (option)	
	DPCI Expansion	Standard		
	Watchdog Timer		1	
	DPCIe Gaming API & Runtime	Star	ndard	
	DPX Connector Peripherals Libraries	Star	ndard	
Gaming Software	Embedded OS Support	Standard		
	BIOS Customization	Opti	ional	
	DPX SAS Connector	Opti	ional	
	Media Validation Toolkit	Optional		
Other Featu	ıres	12VDC for V1605, 5 for R	5, 12V JAMMA Input series	

Modular Series













Model Name		DPX-M280	DPX-M1280	DPX-M275	DPX-M1275	DPX-M266	DPX-M1266	
Form Factor		Embedded Mini-ITX	DPX Multimedia Gaming	Embedded Mini-ITX	DPX Multimedia Gaming	Extended Mini-ITX	DPX Multimedia Gaming	
СРИ			System mbedded 8000		Intel® 12/13/14th Generation Core TM -i7/i5/i3		System edded R2000 APU	
	Socket	BGA		LGA1700		BGA		
D	Max. Speed		.1) GHz		1.6 (4.8) GHz		3.35 (3.7) GHz	
Processor System	TDP	54W			5W		o 54W	
	Chipset	SoC			10E	-	GoC	
	BIOS	AMI APTIO UEFI (Gaming optimised)	AMI UEFI SPI with Media	Validation Toolkit support	AMI UEFI SPI with Media	Validation/OPROM Support	
	Mini PCIe / mSATA		-		-		-	
Expansion Slot	PCle	PCIe x 16 (x8 signal)		PCle x16	3 Gen 5.0	PCle x16 Slot, Gen 3 (x8	signal, x4 with R2312 APU)	
	Side Port	12C, PC	Cle, USB	12C, PC	Cle, USB		orts, 5x Intrusion/DI Inputs orts 1x PCle, 2 USB)	
	Technology	Dual Channel D	DR5 5600 MT/s	DDR5-4800/560	0 MT/s, Non-ECC	2x S	DDIMM	
Memory	Max. Capacity	64	GB	32GB per channe	I (up to 64GB total)	3:	2GB	
	Socket	2x SODIMM		2 x 262 PIN D	DR5 SO-DIMM	2x 260 PIN D	DR4 SO-DIMM	
	Controller	in APU (Integrated AMD	RDNA3 graphics engine)	Graphics Controller: Intel	® UHD Graphics 730 / 770	AMD Radeon VEGA GPU	with up to 8 Compute Units	
	VGA		-		-		-	
Graphics	DVI		<u>-</u>		-		-	
	DP		4		2	4x DP++ (3 with R2312)	
	HDMI	-			1		-	
Ethernet	LAN1	G	bE	G	bE	(àbE	
	LAN2	G	bE	GbE			BibE	
Storage	SATA	-		2		2		
	Cfast		-	-		2		
	M.2	2			1	1		
	VGA / DVI / HDMI / DP	0/0/0/4			/1/2		0/0/4	
	Ethernet	2			2		2	
	USB 2.0		4		6		6	
I/O	USB 3.1		2		3		3	
	Audio	7.1 Surround Sound Internal connector for: Line level FL/FR/SBL/SBR/RL/RR/ CE and LFE. Line In L & R, MIC In, SPDIF In External RCA phono for: SPDIF Out		6-Way header (Line-out (FL, FR, LFE), SPDIF_Out)		Line Le	vel, SPDIF	
	Serial Ports		2 x fully featured, 4 x Tx/Rx). S232, 1x ID003/TTL/RS232		oort. DB9M connectors (full 232)		2, 1x Cctalk,, 1x RS455, 1x ID003)	
	SRAM		-		-	Expans	ion Board	
	OpROM		-		-		ty via BIOS IC	
	TPM	TPI	M2.0	TPM2.0		TPM 2.0		
	Audio Amplifier		-	-		-		
Gaming	Digital Inputs	5 individually co	nfigurable signals	5/0		Expansion Board		
Hardware	Digital Outputs		-		-		ria side)	
	Intrusion Inputs	5 individually co	nfigurable signals	5	5/0		ion Board	
	iButton / GPIO		-	-		Standard		
	DPCI Expansion		-	-			1	
	Watchdog Timer		1	1		Standard		
	DPCIe Gaming API & Runtime		-	-		Sta	ndard	
	DPX Connector Peripherals Libraries	Standard		Standard		Sta	ndard	
Gaming Software	Embedded OS Support	Star	ndard	Standard		Optional		
	BIOS Customization	Opt	ional	Opt	ional	0р	tional	
	DPX SAS Connector	Opt	ional	Opt	ional	Optional		
	Media Validation Toolkit	Optional		Optional		12VDC Power		

Modular Series









		(Barrier Carrier)		Note that the part of the part		
Мс	odel Name	DPX-M270	DPX-M1270	DPX-E265	DPX-M1265	
Form Facto	or	Extended Mini-ITX	DPX Multimedia Gaming System	Extended Mini-ITX	DPX Multimedia Gaming System	
	CPU	Intel 8 th & 9 th G	en. Core-i3/i5/i7	AMD Ryzen Emb	edded V1000 APU	
	Socket	LGA	1151	BGA		
Processor	Max. Speed	3.2 (4	.6) GHz	3.35 (3.8) GHz		
System	TDP		5W	54W		
	Chipset		/H310	Sc	DC	
	BIOS	AMI UEFI SPI with Media	Validation/OPROM Support	AMI UEFI SPI with Media \	/alidation/OPROM Support	
	Mini PCIe /					
Expansion	mSATA		-	-		
Slot	PCle		16 Gen3	PCle x16 (x8 signal)		
	Side Port		ontrol, 5x Intrusion/DI Inputs		ntrol, 5x Intrusion/DI Inputs	
	Technology	2x S0	DIMM	2x S0	DIMM	
Memory	Max. Capacity	32	2GB	32	GB	
	Socket	2 x 260 PIN D	DR4 SO-DIMM	2x 260 PIN DI	DR4 SO-DIMM	
	Controller	Intel UHD Graphics 630	/ Intel HD Graphics 615	AMD Radeon VEGA GPU w	vith up to 8 Compute Units	
Graphics	VGA		-		-	
	DVI		-		-	
	DP		2	4	4	
	HDMI		1		-	
Ethernet	LAN1	GbE		GbE		
	LAN2	GbE		GbE		
	SATA	2		2		
Storage	Cfast	-		2		
	M.2	1			1	
	VGA / DVI / HDMI / DP	0/0/1/2		0/0	/0/4	
	Ethernet		2	:	2	
I/O	USB 2.0		0		6	
	USB 3.1		4	;	3	
	Audio	Line Lev	rel, SPDIF	Line Level, SPDIF		
	Serial Ports	6x Configurable (3x RS232, 1x	Cctalk,, 1x RS455, 1x TTL/ID003)	6x Configurable (3x RS232, 1x Cctalk,, 1x RS455, 1x TTL/ID003)		
	SRAM	Expansi	on Board	Expansion	on Board	
	OpROM	Functionalit	y via BIOS IC	Functionality via BIOS IC		
	TPM	TPN	12.0	TPM 2.0/1.2		
	Audio Amplifier		-	-		
Gaming	Digital Inputs	Expansi	on Board	Expansion Board		
Hardware	Digital Outputs	6 (5 v	ia side)	6 (5 via side)		
	Intrusion Inputs	Expansi	on Board	Expansion	on Board	
	iButton / GPIO	Star	ndard	Stan	dard	
	DPCI Expansion		1	1		
	Watchdog Timer	Star	ndard	Standard		
	DPCIe Gaming API & Runtime	Star	ndard	Standard		
	DPX Connector Peripherals Libraries	Stal	Standard		Standard	
Gaming Software	Embedded OS Support	Opt	ional	Optional		
Juliwale	BIOS Customization	Opt	ional	Optional		
	DPX SAS Connector	Opt	Optional		Optional	
	Media Validation Toolkit	12VD0	Power	ATX or 12VDC Power		

Memo	



Memo	



Regional Service & Customization Centers

USA | Milpitas, CA | 1-408-519-3800 China Kunshan 86-512-5777-5666 Taiwan | Taipei | 886-2-7732-3399 Netherlands Eindhoven

Worldwide Offices

Asia Pacific

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