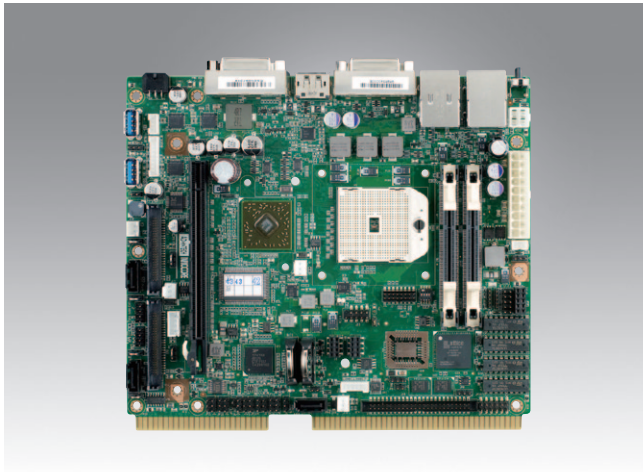


# DPX<sup>®</sup>-S430

## AMD<sup>®</sup> Embedded R-Series (Fusion) Gaming Platform



### Features

- Very high performance AMD platform
- Comprehensive gaming features
- High performance integrated or PCI-Express graphics
- Easy integration for gaming applications
- Quad monitor supported
- VESA DisplayPort v1.2 supported



### Introduction

The DPX<sup>®</sup>-S430 is a complete integrated gaming platform on one board. AMD's latest Fusion chipset on the DPX<sup>®</sup>-S430 consists of a choice of several high performance APUs with "Discrete-level Graphics". The integrated graphics core out-performs many discrete graphics ASICs and represents a significant step up in what chipset graphics can do. Furthermore the chipset graphics can output to 4 independent monitors and supports DisplayPort 1.2 daisy-chaining topology whereby two monitors are driven from one DisplayPort output. A full feature set of I/O and COMs designed specifically for gaming devices is also included making the DPX<sup>®</sup>-S430 an ideal integrated platform for many high end gaming, amusement and kiosk applications.

### Specifications

System	AMD Embedded R-Series Low Power Dual and Quad Core APUs
	Highest performance chipset graphics system
	DDR3-1600, 2 SODIMMs
	2 x Gigabit Ethernet LAN
	2 x Compact Flash sockets, 2 x C-Fast <sup>™</sup> sockets, 2 x SATA DOM sockets
I/O	Audio (on-board 3 channel amp)
	4096 kB SRAM (NVRAM), 1MB ROM, EEPROM
	10 x Serial Ports (RS232/TTL/CCTalk/RS485 )
	4x USB 3.0, 8 x USB 2.0
Video	GPIO/iButton <sup>®</sup>
	32 inputs and 32 outputs (6 Meter outputs with disconnect detect)
	Integrated – AMD next generation "Devastator" Radeon 7000 Series Direct X 11 Graphics core
	Dual, Triple (and Quad*) monitor support
Security	Full speed PCI-Express X16 v2.0 slot to support a range of PCI-Express graphics cards; AMD, Nvidia <sup>®</sup> , S3 Graphics
	TPM security device on board
	Intrusion switch inputs (6 dedicated)
	BIOS customization
Software	1 x iButton <sup>®</sup> socket
	1 x Security ROM socket
	Edge-to-edge drivers and API/SDK.
CPU/Chipset	Code portability through consistent API with other Advantech-Innocore boards.
	Range of Advantech-Innocore software products for gaming
	AMD R-Series Dual and Quad Core APUs
	AMD A75 FCH

Memory	2 x SODIMM sockets
	Up to 16GB DDR3 -1600 MT/s SDRAM
BIOS	AMI APTIO UEFI BIOS
	BIOS can be write protected
Video Ports	2 x Analog VGA (15 pin D-Sub)*
	2 x DVI-D (MicroCross <sup>™</sup> )
	1 x DisplayPort v1.2 with 5.4Gb/s link speed and daisy chaining
LAN	2 x Ethernet Gigabit LAN
	Full duplex operation
	Wake-On-LAN capability
Storage	2 x CompactFlash Type I/II (Flash/MicroDrive)
	2 x C-Fast <sup>™</sup> socket on underside
	3 x SATA 3 for HDD, SSD or SATA DOM
Ports	5 x RS232 Serial, 16550 compatible
	2 x CCTalk/RS232
	2 x RS232/TTL
	1 x RS232/485
	12 x USB (2 USB 3.0 and 2 USB 2.0 on front panel, 6 USB 2.0 and 2 USB 3.0 on board headers)
	2 x I <sup>2</sup> C on board header
iButton/GPIO	Audio out (SPKR, SPDIF, line out, line in)
	Bi-Directional, programmable GPIO header for iButton <sup>®</sup> , special purpose device or security module
Discrete I/O	32 ESD protected inputs
	32 OC Outputs (500mA, 50V) (of which 6 I/O ports can be configured as meter outputs with disconnect detect)

\*VGA#2 and DVI-D#2 Option - TBC

## Specifications Cont.

Sound	HD Audio On board 13W + 13W + 13W Class D audio amps with FL, FR, LF speaker connections
Security ROM	1 x Socket for 1MB EPROM/OTPROM PLCC32 (PCI, Bootable)
SRAM	4096 KB fast SRAM (2 banks) on PCI bus Battery state software readable
TPM	TCPA/TPM 1.2 compliant security device on board.
Watchdog Timer	Programmable time-out of 1-255 seconds "Always on" design (default 255 seconds)
EEPROM	32kB user EEPROM (option for larger)
Intrusion Detection	Six Intrusion detection input lines Operates with and without system active Logs date/time of last 254 events Logs system resets/brownouts as events EEPROM backup for 10 years retention

System Health Monitoring	Measurement of CPU core temp. With thermal trip. PWM fan for APU.
Power Fail Detect	External sensor input for advanced warning of AC power fail
Expansion	1) Up to 240 Bytes of PCI-based I/O expansion available through DirectPCI + interface on board header. 2) PCI-Express x16 graphics card
Power	ATX or AT mode
Environment	Operating Temperature: 0 ~ 50° C TBC Storage Temperature: -20 ~ 85° C
Approvals	EMC: CE, FCC Class A RoHS, WEEE
Dimensions	170 x 200 mm (6.7 x 7.9")

All product specifications are subject to change without notice .

## Optional Accessories

Full system chassis  
Range of PCI-Express graphics cards  
I/O connector breakout board  
Edge card connector set  
Compact Flash cards, SATA DOM, SSD storage devices  
iButtons®, iButton carrier

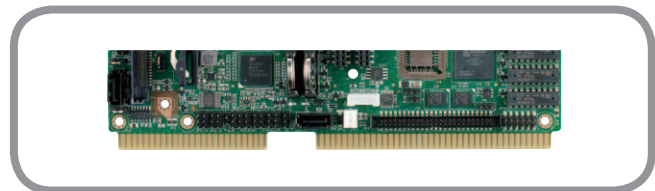
## Benefits

Best in class integrated and expandable graphics  
Single integrated solution  
Designed for the Gaming Industry  
Backwards compatible with DPX®-S series boards  
Small size  
Low power  
Long lifecycle

## Front I/O



## Rear I/O



## OEM Customization and Product Development

- Advantech-Innocore is part of the Advantech Co., Ltd. Group of Companies.
- Advantech-Innocore specializes in the fields of PC-based hardware design and software development. Our in-depth knowledge and global resources make us your ideal partner.
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