

# 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
I/O	DDR3-1600, 2 SODIMMs
	2 x Gigabit Ethernet LAN
Video	2 x Compact Flash sockets, 2 x C-Fast <sup>™</sup> sockets, 2 x SATA DOM sockets
	Audio (on-board 3 channel amp)
Security	4096 kB SRAM (NVRAM), 1MB ROM, EEPROM
	10 x Serial Ports (RS232/TTL/CCTalk/RS485 )
Software	4x USB 3.0, 8 x USB 2.0
	GPIO/iButton <sup>®</sup>
CPU/Chipset	32 inputs and 32 outputs (6 Meter outputs with disconnect detect)
	Integrated – AMD next generation "Devastator" Radeon 7000 Series Direct X 11 Graphics core
Memory	Dual, Triple (and Quad*) monitor support
	Full speed PCI-Express X16 v2.0 slot to support a range of PCI-Express graphics cards; AMD, Nvidia <sup>®</sup> , S3 Graphics
BIOS	TPM security device on board
	Intrusion switch inputs (6 dedicated)
Video Ports	BIOS customization
	1 x iButton <sup>®</sup> socket
LAN	1 x Security ROM socket
	Edge-to-edge drivers and API/SDK.
Storage	Code portability through consistent API with other Advantech-Innocode boards.
	Range of Advantech-Innocode software products for gaming
Ports	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> )
LAN	1 x DisplayPort v1.2 with 5.4Gb/s link speed and daisy chaining
	2 x Ethernet Gigabit LAN
Storage	Full duplex operation
	Wake-On-LAN capability
Ports	2 x CompactFlash Type I/II (Flash/MicroDrive)
	2 x C-Fast <sup>™</sup> socket on underside
iButton/GPIO	3 x SATA 3 for HDD, SSD or SATA DOM
	5 x RS232 Serial, 16550 compatible
Discrete I/O	2 x CCTalk/RS232
	2 x RS232/TTL
Memory	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)
BIOS	2 x I <sup>2</sup> C on board header
	Audio out (SPKR, SPDIF, line out, line in)
Video Ports	Bi-Directional, programmable GPIO header for iButton <sup>®</sup> , special purpose device or security module
	32 ESD protected inputs
LAN	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

## OEM Customization and Product Development

- Advantech-Innocode is part of the Advantech Co., Ltd. Group of Companies.
- Advantech-Innocode 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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## Front I/O



## Rear I/O





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