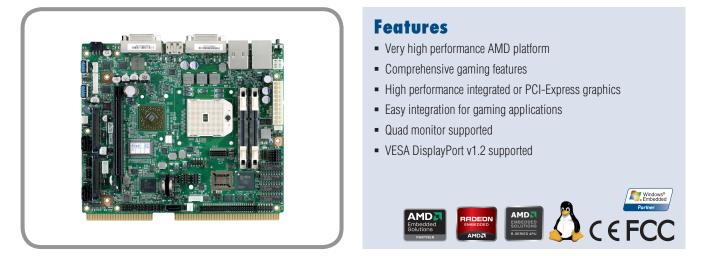
DPX®-S430

AMD[®] Embedded R-Series (Fusion) Gaming Platform



Introduction

The DPX[®]-S430 is a complete integrated gaming platform on one board. AMD's latest Fusion chipset on the DPX[®]-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 be 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[®]-S430 an ideal integrated platform for many high end gaming, amusement and kiosk applications.

Feature Summary

System I/O	AMD Embedded R-Series Low Power Dual and Quad Core APUs	CPU/Chipset	AMD R-Series Dual and Quad Core APUs
	Highest performance chipset graphics system		AMD A75 FCH
	DDR3-1600, 2 SODIMMs	Memory	2 x SODIMM sockets
			Up to 16GB DDR3 -1600 MT/s SDRAM
	2 x Gigabit Ethernet LAN	BIOS	AMI APTIO UEFI BIOS
	2 x Compact Flash sockets, 2 x C-Fast [™] sockets, 2 x SATA DOM sockets		BIOS can be write protected
	Audio (on-board 3 channel amp)	Video Ports	2 x Analog VGA (15 pin D-Sub)*
	4096 kB SRAM (NVRAM), 1MB ROM, EEPROM		2 x DVI-D (MicroCross™)
	10 x Serial Ports (RS232/TTL/CCTalk/RS485)		1 x DisplayPort v1.2 with 5.4Gb/s link speed and daisy chaining
	4x USB 3.0, 8 x USB 2.0	LAN	2 x Ethernet Gigabit LAN
	GPIO/iButton [®]		Full duplex operation
	32 inputs and 32 outputs (6 Meter outputs with disconnect detect)		Wake-On-LAN capability
Video Security	Integrated – AMD next generation "Devastator"	Storage	2 x CompactFlash Type I/II (Flash/MicroDrive)
	Radeon 7000 Series Direct X 11 Graphics core		2 x C-Fast™ socket on underside
	Dual, triple and Quad monitor support		3 x SATA 3 for HDD, SSD or SATA DOM
	Full speed PCI-Express X16 v2.0 slot to support a	Ports	5 x RS232 Serial, 16550 compatible
	range of PCI-Express graphics cards;		2 x CCTalk/RS232
	AMD, Nvidia [®] , S3 Graphics		2 x RS232/TTL
	TPM security device on board		1 x RS232/485
	Intrusion switch inputs (6 dedicated)		12 x USB (2 USB 3.0 and 2 USB 2.0 on front pane
	BIOS customization		6 USB 2.0 and 2 USB 3.0 on board headers)
	1 x iButton® socket		2 x I2C on board header
	1 x Security ROM socket		Audio out (SPKR, SPDIF, line out, line in)
Software	Edge-to-edge drivers and API/SDK.	iButton/GPI0	Bi-Directional, programmable GPIO header for iButton [®] , special purpose device or security module
	Code portability through consistent API with other Advantech-Innocore boards.		
	Range of Advantech-Innocore software products for gaming	*VGA#2 and DVI-D#2 Option - TBC	

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	32 ESD protected inputs
Discrete I/O	32 OC Outputs (500mA, 50V)
	(of which 6 I/O ports can be configured as meter outputs with disconnect detect)
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	4096kB fast SRAM (2 banks) on PCI bus
SHAIVI	Battery state software readable
TPM	TCPA/TPM 1.2 compliant security device on board.
Watahdaa Timar	Programmable time-out of 1-255 seconds
Watchdog Timer	"Always on" design (default 255 seconds)
EEPROM	32kB user EEPROM (option for larger)
	Six Intrusion detection input lines
	Operates with and without system active
Intrusion Detection	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	 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	
Fauiroamaat	Operating Temperature: 0 ~ 50° C TBC	
Environment	Storage Temperature: -20 ~ 85° C	
Approvala	EMC: CE, FCC Class A	
Approvals	RoHS, WEEE	
Dimensions	170 x 200 mm (6.7 x 7.9")	

Optional Hardware

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

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- software development. Our in-depth knowledge and global resources make us your ideal partner.
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Front I/O



Rear I/O



