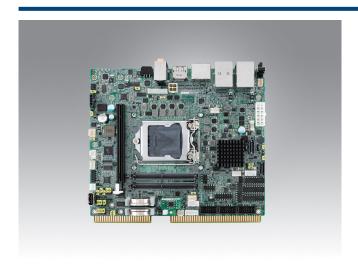
DPX®-S445

6/7th Generation Intel® Core™ Gaming platform



Features

- Very high performance Intel platform
- Dual and Quad Core CPUs from Celeron to Core i7
- Comprehensive gaming features
- High performance integrated or PCI-Express graphics
- Easy integration for gaming applications
- Full featured Driver API for IO and security









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Introduction

Intel's 6th and 7th generation Core i CPUs make the DPX-S445 the highest performance gaming platform available and s itable for the most demanding applications. The integrated graphics core (Intel GT2-530) offers significant performance increases over previous generations and the st India For Express x16 Gen. 3 graphics card slot allows the S445 to support today's latest discrete graphics cards for stunning gaming graphics. A full feature set of I/O and CC Vis designed specifically for gaming devices is also included making the DPX®-S445 an ideal integrated platform for many high end gaming, amusement and kiosk applications.

Specifications

System	Intel® 6th / 7th Generation Core™- i Dual and Quad Core CPUs- Celeron, Pentium, Core i3, i5, i7
System	Long life cycle 5 years availability
	DDR4-2400, 2 SODIMMs up to 32GB
Video (Integrated)	Integrated – High performance chipset graphics Intel GT2-530
	Triple monitor support from CPU
video (integrated)	Three DP++ interface suppo ניטו חוב, fort v1.2
	Direct X 12, OpenGL 4.4, OpenCl 2.2, Vulkan, UVD v6, H.265
Video (Expansion)	Full speed Gen 3 1-E graphics expansion slot Simultaneous operation of integrated and PCI-E card graphics
	TPM security acvice on board
	Intrusion switch inputs (8 dedicated)
	BIOS customization
Security	iButton® interface (2x 1-wire ports) support for external iButton reader
	Precision secure Real time clock device
	Protected i ² c port
	1 x Security ROM socket
	Windows 10, Linux, Legacy Windows 7 (WES7) support on Core i 6th Gen. CPUs
	Edge-to-edge drivers and Software API/SDK.
Software	Code portability through consistent API with other Innocore boards.
	Range of Advantech-Innocore software products for Gaming
CPU/Chipset	Intel 6th/7th Generation Dual and Quad Core CPUs: Core i5, i7 up to 2.9 GHz (3.8 GHz Turbo)
	Core i3, Pentium and Celeron options
	Intel Q170 PCH
Memory	2 x SODIMM sockets
IVIGITIOT y	Up to 32GB DDR4 2400 MT/s SDRAM system RAM

	AMI APTIO UEFI BIOS with support for legacy boot devices
BIOS	BIOS can be write protected
	BIOS/ expansion ROM module – field removable/ verifiable
	2 x Ethernet Gigabit LAN
LAN	Full duplex operation
	Wake-On-LAN capability
Storage	2 x SATA 3 (up to 6Gb/s) headers for HDD, SSD or SATA DOM
	5x RS232 (2x fully featured, 3x Tx/Rx/RTS/CTS)
	2 x CCTalk/RS232
	1 x TTL/RS232
Ports	1 x ID003/TTL/RS232
	1 x RS485/RS232
	11 x USB (3x USB 3.0/2.0)
	2 x I ² C port
iButton/GPIO	Two Bi-Directional GPIO headers for iButton, special
- IDURION OF TO	purpose device, security module
	32 ESD protected inputs
Discrete I/O	32 OC Outputs (500mA, 50V)
, , _	Of which 8 I/O ports can be configured as meter outputs with disconnect detect
	HD 5.1 audio with amplified outputs 15W/ch (FL, FR, LFE) with bass boost
Sound	Front I/O panel jack connectors for: FL, FR, CE, LFE,
Sound	RL, RR. On-board header for: Line In L & R, MIC In,
	SPDIF In, SPDIF Out (x2), Jack detect. 4 pin headphone
	connector
SRAM (NVRAM)	Up to 8MB battery backed fast SRAM
	Battery state software readable
TPM	TCPA/TPM 2.0/1.2 compliant security device on board.
Watchdog Timer	Programmable time-out
EEPROM	32kByte user EEPROM (option for larger)

Specifications Cont.

Asset Tag	Unique API readable serial number
	8x 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 control for CPU fan, GPU fan, system fan
Power Fail Detect	External sensor input for advanced warning of AC power fail

Evenneion	2 x I ² C , 2 x 1-Wire
Expansion	PCI-Express x16 Graphics card.
Power	12V DC single input or ATX v2.3 power supply Intelligent power control
Environment	Operating Temperature: 0 ~ 50° C TBC
	Storage Temperature: -20 ~ 85° C
Approvala	EMC: CE, FCC Class A
Approvals	RoHS, WEEE
Dimensions (excl. golden fingers)	200mm (W) x 170 mm (L) (6.7" x 7.9")

All product specifications are subject to change without notice.

Optional Hardware

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

Benefits

Best in class CPU performance	
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-Innocore is part or the Advantech Co., Ltd. Group of Companies.
- Advantech-Innoco a specializes in the fields of PC-based hardware design and software develope end. Sur in-depth knowledge and global resources make us your ideal partner.
- Specification subject to change. E&OE.
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Front I/O



Rear I/O



