

DPX®-E120

AMD G-Series (Fusion) Industrial Computer System



Features

- Comprehensive gaming features
- Low power and compact design
- Easy integration for gaming applications
- Dual monitor support



Introduction

The DPX®-E120 is a complete industrial computer system that offers good performance and very low power with the AMD G-Series embedded platform. A full feature set of I/O, COMs and security designed specifically for gaming devices is also included, making the DPX®-E120 an ideal integrated platform for many gaming, amusement and kiosk applications. The overall system is housed in an attractive extruded case and the gaming functions share the same API as Advantech-Innocode's other DPX® Series boards.

Feature Summary

System	Complete system solution, enclosure, field proven API and drivers	LAN	2 x Ethernet Gigabit LAN	
	AMD G series APU performance & low power		Full duplex operation	
	1.65 GHz Dual core, 1.5 GHz Single core and 1.2 GHz Single core options		Wake-On-LAN capability	
	Gaming hardware, security and I/O		2 x CompactFlash Type I/II (Flash/MicroDrive)**	
CPU/Chipset	Audio amplifier for 2.1 channels.	Storage	Optional* :-	
	Attractive Aluminum enclosure		1 x SD card**	
	AMD G-Series embedded BGA APUs. T56N 1.65GHz 18W Dual core and T52R 1.5GHz 18W Single core T44R 1.2GHz 9W Single Core APU options		1 x SSD 2.5***	
	AMD 55E Fusion controller hub		5 x RS232 Serial, 16550 compatible (2 x available as TTL)	
Memory	2 x SODIMM sockets	Ports	1 x CCTalk	
	Up to 8GB DDR3 PC3-10600 (1333MT/s) – T56N, T52R Up to 8GB DDR3 PC3-8500 (1066MT/s) – T44R		4 x USB 2.0	
BIOS	AMI PCI/PnP/ACPI BIOS		I/O	4 x USB 2.0**
	Video			Integrated – AMD Radeon HD 6320/6310/6250 Direct X 11, Open GL 4.1
Video Ports:		1 x CCTalk		
Primary:- Analog VGA		2 x RS232		
Secondary:- DVI-D		1 x RS485		
Security	Intrusion switch inputs (4 external, 2 internal)	SRAM	32 ESD protected inputs	
	BIOS customization		32 OC Outputs (500mA, 50V)	
	1 x iButton® socket		(of which 6 I/O ports can be configured as meter outputs with disconnect detect)	
	1 x Security ROM socket		Optional* :-	
Audio	TPM 1.2 (trusted platform module)	EEPROM	4 Opto-isolated outputs	
	High definition audio codec		4 high current outputs (3A)	
	Amplified outputs for 2.1 channels, 13W per channel.		Power Fail Detect, External sensor input for advanced warning of AC power failure	
	Audio line out (SL, SR, LFE), audio line in (stereo)		1024kB fast SRAM (1 bank) on PCI bus	
			Battery state software readable	
			Optional* :- Up to 4096kB	
			Optional* :-	
			32kB user EEPROM	

iButton	1 x iButton® socket for special purpose device or security modules** Optional* :- 1 x iButton®** (range of devices available)
Security ROM	1 x Socket for 1MB EPROM/OTPROM PLCC32 (PCI, Bootable) Optional* :- 1 x Socket for 1MB EPROM/OTPROM PLCC32 (PCI, Bootable)
Watchdog Timer	Programmable time-out of 1-255 seconds "Always on" design (default 255 seconds)
Intrusion Detection	Six Intrusion detection input lines (1 used for 'case open') 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.

Power	ATX or AT mode External PSU.
Enclosure	Aluminum extruded with status LEDs. Passive or active cooling system Compact size Optional:- rear access door for compact flash
Approvals	EMC: CE, FCC Class A RoHS, WEEE
Dimensions	229 x 180 x 77 mm (9.0 x 7.1 x 3.0") Edge-to-edge drivers and API/SDK.
Software	Code portability through consistent API with other Advantech-Innocore boards. Range of Advantech-Innocore software products for Gaming

Notes:

* Minimum order quantities may apply for options

** Internal access with intrusion access control

Benefits

- Low Power
- Single integrated solution
- Small size: 229 x 180 x 77mm (9.0 x 7.1 x 3.0")
- Designed for the Gaming Industry
- Low Cost

Optional Hardware

- Edge card connector set
- Compact Flash cards other SSD
- Microsoft operating system licenses
- External power supply
- iButtons®

OEM Customization and Product Development

- 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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Front I/O



Rear I/O

