

The DPX[®]-E105 is a complete industrial computer system that offers good performance and very low power with the cost effective Intel[®] ATOM[™] processor. A full feature set of I/O and COMs designed specifically for gaming devices is also included making the DPX[®]-E105 an ideal integrated platform for many gaming, amusement and kiosk applications. The overall system is fanless and the gaming functions share the same API as Innocore's other DPX[®]- series boards.

FEATURE SUMMARY

System:

- Intel[®] ATOM[™] performance & low power
- Intel 945GSE chipset
- 512MB DDR2 SDRAM
- 1 x Gb Ethernet LAN
- 2 x Compact Flash socket
- Audio
- 1024kB SRAM

I/O:

- 5 x RS232 Serial, 16550 compatible (2 x available as TTL)
- 1 x CCTalk
- 5 x USB 2.0
- 32 inputs and 32 outputs

Video:

- Integrated Intel GMA 950 (Gen. 3.5)
- Dual monitor support

Security:

- Intrusion switch inputs
- BIOS customization
- 1 x iButton[®] sockets
- 1 x Security ROM socket

Enclosure:

- Aluminium extruded with status LEDs.
- Passive cooling system

Software:

- Edge-to-edge drivers and API/SDK.
- Code portability through consistent API with other Innocore boards.
- Range of Innocore software products for Gaming



Front I/O



Rear I/O

BENEFITS

- Low Power (CPU power 2.5W, overall power TBC)
- Single integrated solution
- Small size - 229x180x77mm (9.0x7.1x3.0")
- Designed for the Gaming Industry
- Low Cost



See overleaf detailed specification

CPU/Chipset:

Intel[®] ATOM[™] N270 1.6GHz (1.6/533 2.5W)

Intel[®] 945GSE + ICH7M

Memory:

1 x SODIMM socket
512MB DDR2 533MHz

Optional* :-
Up to 2GB

BIOS:

AMI PCI/PnP/ACPI BIOS

Video:

Integrated - Intel GMA 950

Video Ports:

Primary:- Analog VGA
Secondary:- DVI

LAN:

1 x Ethernet Gigabit LAN
Full duplex operation
Wake-On-LAN capability

Storage:

2 x CompactFlash Type I/II
(Flash/MicroDrive)**

Optional* :-
1 x CF socket configured for SD card**
1 x HDD/SSD 2.5**

Ports:

5 x RS232 Serial, 16550 compatible (2 x available as TTL)

1 x CCTalk
4 x USB 2.0
1 x USB 2.0**

Optional* :-
1 x CCTalk
2 x RS232
1 x RS485

I/O:

32 ESD protected inputs
32 OC Outputs (500mA, 50V)

Optional* :-
4 Opto-Isolated outputs
4 high current outputs (3A)

Power Fail Detect

External sensor input for advanced warning of AC power fail

Sound:

HD Audio
2 channel line level outputs

SRAM:

1024kB fast SRAM (1 bank) on PCI bus
Battery state software readable

Optional* :-
Up to 4096kB

EEPROM:

Optional* :-
32kB user EEPROM

iButton

1 x iButton[®] socket for special purpose device or security modules**

Optional* :-
1 x iButton[®]**

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.

Environment:

Operating Temperature: 0 – 40 °C TBC
Storage Temperature: -20 – 85 °C

Approvals:

EMC: CE, FCC Class A
RoHS, WEEE

Dimensions:

229x180x77mm (9.0x7.1x3.0")

Optional Hardware:

- Edge card connector set
- Compact Flash cards
- USB sticks
- External power supply
- iButtons[®]



OEM Customization and Product Development:

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.

*Specifications subject to change. E&OE.
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Notes:-

* - Optional items are subject to an MOQ, price change and are factory configured at time of order.

** - User Accessible (Internally mounted behind rear cover plate under battery backed intrusion detection)