Overview
SBC-4225 is based on Intel® C226 chipset and workstation sku processor like the Xeon® and Core™ i3. Built with flexible PCI express expansion, it’s suitable for Medical, Factory Automation, and Digital Signage applications.

Specification
Processor
Intel® Core™ i3 and Xeon® E3-1200v3 series processor up to 3.5 GHz (45~95W) with (8MB) Cache in LGA-1150 package

Supports Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep Technology (depends on CPU sku)

Chipset
Intel® C226 PCH

BIOS
Phoenix UEFI BIOS

Memory
Supports up to 16GB DDR3 1333/1600 SDRAM on two 240-pin ECC DIMM sockets

Storage Devices
Support 5x SATA III drives (Dual ports via Backplane)

Watchdog Timer
Programmable via S/W from 0.5 sec. to 254.5 sec.

 expansion Interface
From CPU (Xeon/Core i3): 1x PCI Express x16 or 2x PCI Express x8 or 1x PCI Express x8 + 2x PCI Express x4 by jumper setting (Gen3 up to 8.0 GT/s)

From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different bios support (Gen2 up to 5.0 GT/s)

4x PCI devices at 32 bit 33 MHz

Super I/O
ITE IT8728F

Audio
Intel® BD82C226 PCH built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC886-GR HDA codec, 5.1 channels

Ethernet
Intel® WGI217LM + WGI210AT gigabit Ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet - PCI Express x1 interface based on gigabit Ethernet - Dual RJ-45 connector with two LED indicators

Serial Port
1x RS232 and 1x selectable RS232/422/485 on board

USB
8x USB 2.0 ports (four ports through backplane)

480Mb/s bus capable of high-speed/full-speed/low-speed data ranges

6x USB 3.0 ports on board (four ports on board, dual ports on bracket)

5Gbps bus capable of high-speed/full-speed/low-speed data ranges

Keyboard & Mouse
2x USB 3.0 ports on bracket dedicated to keyboard & mouse

GPIO
On board programmable 8-bit Digital I/Os

Others
1x parallel port

Graphics Controller
Intel® Xeon® and Core™ i3 processors integrated graphics engine

Provides improved 3D multimedia capabilities including Microsoft DirectX 11.1, Shader Model 4.0, MPEG-2 and OpenGL 3.2

Display Interface
Support independent triple display by CRT on bracket: Resolution up to 1920x1200 @ 60Hz

DVI-D on bracket: up to 1920x1200 @ 60Hz

HDMI: up to 4096x2160 @ 24Hz (CRT + DVI-D on bracket by DVI-I port)

Dimension
338.5(L) x 126.39(W) mm; 13.33"(L) x 4.98"(W)

Power Supply
Typical: +12V@5.29A; +5V@4.94A

Environment
Operation Temperature: 0~60 °C (with highest performance on 50 °C)

Storage Temperature: -20~80 °C

Relative Humidity: 5~90%, non-condensing

MTBF
Over 100,000 hours at 40°C

Packing List
Standard
SATA III cable (Black)

Cable kit for FDD+PRN with bracket

Dual head COM port cable with bracket

DVI-D + VGA cable

PICMG SBC Handling and Installation Notice

Installation CD

Optional
PS/2 Keyboard / Mouse Cable with bracket

USB port cable with bracket

USB 3.0 cable with bracket

PA-M1AU Multiple Media kit